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## PREPARATION OF CHAULMOOGRA OIL DERIVATIVES FOR THE TREATMENT OF LEPROSY.

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The following description is written to meet the request for a brief statement of the routine methods used at the University of Hawaii for making certain derivatives of chaulmoogra oil for therapeutic use.

The chaulmoogra oil used is obtained through the dealers and varies greatly in quality. Some lots are clear and liquid at our laboratory temperature (usually between 70° and 80° F.); others are dark, muddy looking oils with large quantities of precipitated material. The genuine chaulmoogra oil is expressed from the seeds of *Taraktogenos kurzii*. A number of closely related species of *Hydnocarpus* yield oils of similar composition, and some of the commercial oils are quite likely to be *Hydnocarpus* oils or mixtures of *Hydnocarpus* and *Taraktogenos* oils. There is probably little or no difference in the values of these oils for purposes of making preparations to be used in leprosy. The distinguishing characteristic of all of these oils is their power of rotating the plane of polarized light. The valuable oils show specific rotations around +50°. The differences in appearance noted above seem to have no correlation with differences in rotation, and quite satisfactory products can be made from oils of poor appearance.

The first step is to break up the glycerides into glycerol and the sodium soaps of the fatty acids by saponifying the oil with sodium hydroxide under pressure. Two hundred and forty grams of sodium hydroxide are dissolved in 1 liter of hot water, and this is thoroughly mixed with 1,500 grams of chaulmoogra oil in a 5-liter, round-bottom flask, and heated in an autoclave under 15 pounds of steam pressure for one hour. Loss by frothing is prevented by inserting a loosely fitting wooden plug or stopper in the neck of the flask, through which runs a piece of 16 mm. (inside diameter) glass tubing, which extends about 35 cm. above the flask, where two right-angle bends lead it into an 800 c. c. beaker, placed on a shelf in the autoclave.

A piece of cheesecloth tied over the top of the beaker, through which the bent tube projects, effectively prevents loss from spattering.

When the reaction is complete, the mixture is poured into 3 or 4 liters of hot water in a large precipitating jar and stirred until dissolved. The soap solution is now acidified with commercial hydrochloric acid, and the liberated fatty acids rise to the top of the water in the form of a thick oily layer. By means of a siphon, the lower aqueous layer containing sodium chloride and glycerol is drawn off and discarded. The remaining oil is washed with successive portions of hot water and finally transferred to a hot-water funnel, where, in the course of a few hours' heating, all the water settles out from the liquefied fatty acids and is drawn off. The acids are strained through linen before being allowed to solidify. The usual yield of mixed fatty acids at this point is between 1,350 and 1,400 grams.

These crude mixed fatty acids are treated in different ways to prepare the products which are described under the following headings: (a) Mixed ethyl esters, (b) Capsules, (c) Ethyl hydnocarpate, (d) Ethyl chaulmoograte, (e) Ethyl dihydrochaulmoograte.

*Mixed ethyl esters* (for intramuscular injection).—Mixed ethyl esters are prepared by esterifying the crude mixed fatty acids with ethyl alcohol. Eight hundred cubic centimeters of 92-94 per cent ethyl alcohol are added to 1,000 grams of acids in a 2-liter flat-bottom flask, heated to 50°-60° C., under a reflux condenser, and dry hydrochloric acid gas is led into the flask. This treatment is continued for about 20 minutes after a separation into two layers occurs. The hydrochloric acid gas is conveniently prepared by allowing concentrated sulphuric acid to drop into concentrated hydrochloric acid and drying the hydrogen chloride gas evolved by passing it through sulphuric acid.

When esterification is complete, the contents of the flask are poured into 2 or 3 liters of warm water and washed to remove excess hydrochloric acid and alcohol. The ethyl esters come to the top on standing, and the lower aqueous layer is siphoned off and discarded. The washing is continued with several successive portions of water. Any water held emulsified in the esters settles out upon being held for a time in a hot water funnel. These crude ethyl esters are reddish-brown in color. They can be used in this condition; but in order to get them as pure as possible they are distilled under high vacuum.

About 1,200 c. c. of the crude dry esters are put in a 2-liter distilling flask. A roll of wire gauze is inserted in the lower part of the neck of the flask and the neck is filled with glass beads or short lengths of glass tubing to form a fractionating column about

12 cm. in length. The flask is connected to the vacuum pump through a specially designed piece of apparatus with stopcocks so arranged that the receiver may be changed without interfering in any way with the distillation. (See Fig. 1.)

*Capsules* (for administration by way of the mouth).—Capsules are prepared by melting the mixed fatty acids and running the liquid into gelatine capsules of varying sizes containing  $\frac{1}{8}$ ,  $\frac{1}{4}$ ,  $\frac{1}{2}$ , and  $\frac{3}{4}$  gram of the fatty acids.

When cool, the contents of the capsules become solid.

*Distillation of the mixed fatty acids.*—From the mixture of fatty acids, pure chaulmoogric acid and pure hydnocarpic acid have been prepared by fractional distillation under high vacuum followed by a fractional crystallization, using the same apparatus as that described for distilling the ethyl esters.

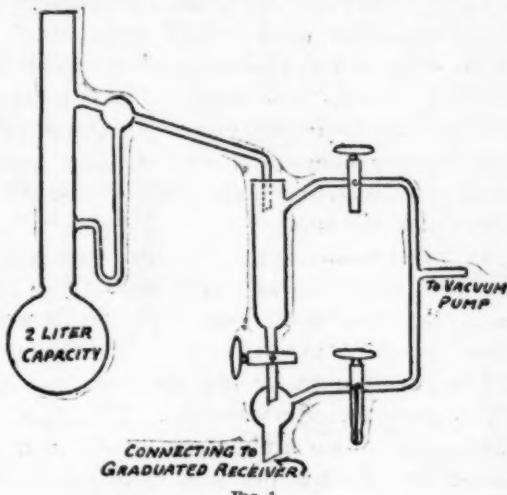


FIG. 1.

The vacuum is applied before the temperature of the liquid in the flask rises above 100° C; otherwise serious frothing may result. It is best to have both stopcocks open to the vacuum, also the stopcock leading into the graduated receiver. There is usually a tendency for a little of the fatty acid vapor to solidify in the stopcocks, interfering with the vacuum. This difficulty may be obviated by playing a jet of steam against the stopcock. As the stopcocks must remain air-tight, even while hot, it is best to use a mixture of vaseline and talcum powder as a lubricant in them. Some of the patent stopcock lubricants also give good results.

The first 350 c. c. which distill over are worked for hydnocarpic acid. The next 200, composing the mixture fraction, are set aside to be redistilled as part of the next lot of mixed fatty acids. The remainder of the distillate is worked for chaulmoogric acid.

*Ethyl hydnocarpace.*—The hydnocarpic acid fraction noted above is recrystallized first from 80 per cent alcohol, using 20 c. c. of alcohol per 5 grams of acid, and recrystallization is continued from this solvent until the melting point of the solute is above 35° C.; then it is recrystallized from petroleum ether, using 30 c. c. of solvent per 5 grams of solute until its melting point is 60° C. The melting point of the

product from each crystallization moves upward very slowly in the case of this acid, from 12 to 16 recrystallizations being required to purify the acid completely and bring its melting point up to 60° C.

The hydrocarpic acid is esterified with ethyl alcohol in the same way that the mixed acids are, and the ethyl hydnocarpace is washed, dried, and distilled under high vacuum. The ethyl hydnocarpace is almost water white.

*Ethyl chaulmoograte.*—The chaulmoogric acid fraction is recrystallized from 80 per cent alcohol, using 20 c. c. of the alcohol to 5 grams of the acid, and recrystallization is continued until the product melts at 68° C. In general, four or five crystallizations are sufficient.

The pure chaulmoogric acid is treated with ethyl alcohol and esterified in the same manner as the mixed acids. The ethyl chaulmoograte is washed, dried, and distilled under high vacuum. It is almost water white in color.

*Dihydrochaulmoogric acid and ethyl dihydrochaulmoograte.*—Dihydrochaulmoogric acid is prepared from pure chaulmoogric acid by catalytic reduction. Two hydrogen atoms enter the double bond of chaulmoogric acid forming a saturated inactive acid.

One hundred grams of chaulmoogric acid are dissolved in 150 c. c. of 95 per cent ethyl alcohol. The flask containing the solution is kept at a temperature of 55–60° C. in a water bath, and hydrogen under 2–3 pounds pressure is bubbled through the solution. The catalyst, prepared as follows, is added to this solution: Five c. c. of a solution of platinum chloride ( $Pt. Cl_4$ ), containing 0.01 gram of platinum per c. c., and 5 c. c. of a solution of palladium chloride ( $Pd. Cl_2$ ), containing 0.01 gram of palladium per c. c., and 3 c. c. of a solution containing 0.01 gram of gum arabic per c. c. are mixed, and about 2 grams of hydroxylamine-hydrochloride added; then, with constant stirring, small amounts of sodium bicarbonate are added until the color due to the chloride disappears and a translucent black begins to appear. It is then immediately added to the chaulmoogric acid solution.

The time necessary for complete reduction of the chaulmoogric acid varies from 24 hours to several days, and it is frequently necessary to add fresh portions of the catalyst from time to time. The reduction can be measured by taking samples at intervals and determining the iodine value. The iodine value of dihydrochaulmoogric acid is zero.

The pure dihydrochaulmoogric acid is obtained by recrystallizing from glacial acetic acid.

Ethyl dihydrochaulmoograte is obtained by treating the acid with ethyl alcohol. As this acid is much harder to esterify than any of the others, it is necessary to use absolute ethyl alcohol in excess and to pass in the hydrogen chloride until the solution is saturated, in

order to get complete esterification. The ethyl dihydrochaulmoograte is washed, dried, and distilled in the same manner as the mixed esters.

HYGIENIC LABORATORY NOTE.—For reference to the earlier work on the chemistry of chaulmoogra oil and its derivatives the following references may be consulted:

The Constitution of Chaulmoogric Acid, Part I. By Power and Gornall. Published in the Transactions of the Chemical Society, 1904.

The Constituents of the Seeds of Gynocardia Odorata, R. Br. By Power and Barrowcliff. Published in the Transactions of the Chemical Society, 1905.

The Constitution of Chaulmoogric and Hydnocarpic Acids. By Barrowcliff and Power. Published in the Transactions of the Chemical Society, 1907.

The foregoing were all published as reprints from the Wellcome Chemical Research Laboratories, Frederick B. Power, Director. These papers were referred to in an earlier paper by Professor Dean and Doctor Wrenshall, entitled "Fractionation of Chaulmoogra Oil," Reprint No. 646, from the Public Health Reports, April 1, 1921.

## THE NOTIFIABLE DISEASES.

### PREVALENCE DURING 1921 IN CITIES OF OVER 100,000.<sup>1</sup>

**ANTHRAX, CEREBROSPINAL MENINGITIS, DIPHTHERIA, INFLUENZA, MALARIA, MEASLES PELLAGRA, PNEUMONIA (ALL FORMS), POLIOMYELITIS (INFANTILE PARALYSIS), RABIES IN ANIMALS, RABIES IN MAN, SCARLET FEVER, SMALLPOX, TUBERCULOSIS (ALL FORMS AND PULMONARY), TYPHOID FEVER, AND TYPHUS FEVER—CASES AND DEATHS REPORTED, 1921; INDICATED CASE AND DEATH RATES PER 1,000 POPULATION; FATALITY RATES PER 100 CASES; AND MEDIAN NUMBER OF CASES REPORTED DURING PRECEDING YEARS.**

The following tables were compiled from data furnished by the city health officers. They include all cities in the United States of 100,000 population or over.

The populations given, and which were used in computing the rates, were estimated as of July 1, 1921, except where otherwise stated. For cities which are included in the Weekly Health Index, issued by the Bureau of the Census, the estimated populations as given in that publication were used. Estimates based on the censuses of April 15, 1910, and of January 1, 1920, were made for other cities.

The figures given are for the calendar year 1921, except for Portland, Oreg., where the year began December 1, 1920, and ended November 30, 1921.

<sup>1</sup> It will be noted that some of the cities are apparently much more successful in obtaining reports of the notifiable diseases than are others. This may be due to the greater activity of their health departments or to a greater interest in the public welfare on the part of their practicing physicians. That the health departments of certain cities are securing fairly complete information of the prevalence of preventable diseases is indicated in a number of instances by the large numbers of cases reported as compared with the numbers of deaths registered from the same causes.

Medians <sup>2</sup> of the total number of cases reported annually during the years 1913 to 1920 are given for cerebrospinal meningitis, diphtheria, measles, poliomyelitis (infantile paralysis), scarlet fever, smallpox, and typhoid fever. The column headed "Number of years" shows the number of years for which data were available. For pellagra, data were available only for the years 1915 to 1920, inclusive.

For all diseases except anthrax, rabies, and typhus fever there is given either the fatality rate per 100 cases or the number of cases reported for each death registered.

In comparing the figures for 1921 with the medians for preceding years, it should be borne in mind that there has been a gradual improvement in the reporting of communicable diseases during the last few years. An increase in the number of cases reported may be due to better reporting of the particular disease rather than to an increase in the number of cases existing.

In studying these tables it should be kept in mind that a relatively large number of reported cases of a communicable disease as indicated by a high case rate (and more especially when accompanied by a relatively small number of deaths, as indicated by a low fatality rate) usually means that the health department of that city is active and that the cases of the disease are being well reported by the practicing physicians. It does not usually mean that the disease is more prevalent in that city than in other cities. A high fatality rate may mean that the disease was unusually virulent in a city; that the physicians did not treat the disease in that city with the success usual elsewhere, or that the practicing physicians did not report all of their cases to the health department. On the other hand, an unusually low fatality rate may be due to the fact that the disease in the city was unusually mild; that the physicians treated it with unusual success; that the practicing physicians reported their cases satisfactorily; or that the registration of deaths was incomplete or the assignment of the causes of death inaccurate.

Cities in which no cases of a certain disease were reported in 1921 are not included in the table for that disease.

Considerable increases in the number of cases of diphtheria and scarlet fever are indicated by the tables. Sixty-eight cities reported nearly 82,000 cases of diphtheria for the calendar year 1921, as compared with about 59,000 cases per annum during the preceding eight years. The same cities reported nearly 64,000 cases of scarlet fever for 1921, but the median for the preceding years was less than 40,000 cases.

<sup>2</sup> The median has been defined as the magnitude of the middle item in an array. If the numbers of cases reported are arranged so that the greatest number reported in any one year is first, the second greatest number is second, and so on, then the number of cases in the center of the array is the median. The following illustration shows the method followed when data for five years are available: In a city reporting 60 cases in 1915, 79 cases in 1916, 71 cases in 1917, 59 cases in 1918, and 53 cases in 1919, the median is 60 cases.

Measles was not so prevalent during 1921 as during the last few years in most of the cities.

During the calendar year 1921, 56 cities reported more than 17,000 cases of smallpox. The median for these cities during the preceding few years was less than 6,900 cases.

**Reported Prevalence for the Year 1921—Medians for Previous Years.**

**ANTHRAX.**

City.	Cases reported, 1921.	Deaths registered, 1921.	City.	Cases reported, 1921.	Deaths registered, 1921.
California:			New Jersey:		
Los Angeles.....	3	0	Camden.....	7	0
Delaware:			Jersey City.....	1	0
Wilmington.....	5	1	Newark.....	1	0
Illinois:			New York:		
Chicago.....	2	1	New York.....	9	4
Louisiana:			Ohio:		
New Orleans.....	3	1	Cleveland.....	2	1
Maryland:			Pennsylvania:		
Baltimore.....	1	0	Philadelphia.....	10	1
Massachusetts:			Tennessee:		
Worcester.....	1	0	Memphis.....	1	1
Nebraska:			Nashville.....	1	—
Omaha.....	1	0	Texas:		
			Houston.....	1	0

**CEREBROSPINAL MENINGITIS.**

City.	Estimated population, July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama:								
Birmingham.....	186,133	8	13	11	0.06	6	0.03	54.5
California:								
Los Angeles.....	614,160	8	30	15	.02	8	.01	53.3
Oakland.....	226,472	3	5	12	.05	0	—	—
San Francisco.....	520,546	8	18	47	.09	9	.02	19.1
Colorado:								
Denver.....	263,152	7	2	—	—	1	.00	—
Connecticut								
Bridgeport.....	<sup>1</sup> 143,555	8	12	15	.10	3	.02	20.0
Hartford.....	144,080	7	7	7	.05	4	.03	57.1
New Haven.....	167,007	6	12	6	.04	0	—	—
Delaware:								
Wilmington.....	113,408	3	3	2	.02	0	—	—
District of Columbia:								
Washington.....	<sup>1</sup> 437,571	7	7	8	.02	4	.01	50.0
Georgia:								
Atlanta.....	207,473	3	9	—	—	15	.07	—
Illinois:								
Chicago.....	2,780,655	8	103	70	.03	33	.01	41.8
Indiana:								
Indianapolis.....	325,632	7	21	6	.02	5	.02	83.3
Iowa:								
Des Moines.....	132,663	4	4	—	—	1	.01	—
Kansas:								
Kansas City.....	103,884	5	22	7	.07	3	.03	42.9
Kentucky:								
Louisville.....	236,083	7	29	5	.02	0	—	—
Louisiana:								
New Orleans.....	394,657	8	17	7	.02	4	.01	57.1
Maryland:								
Baltimore.....	750,564	7	30	24	.03	12	.02	50.0
Massachusetts:								
Boston.....	757,634	8	60	54	.07	28	.04	51.9
Cambridge.....	110,444	4	6	5	.05	2	.02	40.0
Fall River.....	120,668	8	8	5	.04	3	.02	60.0

<sup>1</sup> Enumerated population Jan. 1, 1920.

Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.  
CEREBROSPINAL MENINGITIS—Continued.

City.	Estimated population, July 1, 1921.	Median.		1921					
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.	
<b>Massachusetts—Continued.</b>									
Lowell	113,757	8	12			4	0.04		
New Bedford	125,012	5	3	12	0.10	4	.03	33.3	
Springfield	135,877	7	4			4	.03		
Worcester	184,972	7	7	5	.03	1	.01	20.0	
<b>Michigan:</b>									
Detroit	1,070,450	6	65	61	.06	32	.03	52.5	
Grand Rapids	141,197	4	1			1	.01		
<b>Minnesota:</b>									
Minneapolis	392,815	4	13	8	.02	5	.01	62.5	
St. Paul	237,781	6	5			1	.00		
<b>Missouri:</b>									
Kansas City	336,157	8	23	16	.05	10	.03	62.5	
St. Louis	786,164	8	39	26	.03	12	.02	46.2	
<b>Nebraska:</b>									
Omaha	197,066	5	5			6	.03		
<b>New Jersey:</b>									
Camden	119,672	4	3			1	.01		
Jersey City	302,788	8	10	14	.05	11	.04	78.6	
Newark	424,885	8	34	23	.05	11	.03	47.8	
Paterson	137,463	6	12	9	.07	6	.04	66.7	
Trenton	122,760	6	2			7	.06		
<b>New York:</b>									
Albany	115,071	6	2			7	.06		
Buffalo	519,608	8	16	19	.04	13	.03	68.4	
New York	5,751,867	8	290	279	.05	147	.03	52.7	
Rochester	305,229	6	9	7	.02	1	.00	14.3	
Syracuse	177,265	6	3	2	.01	1	.01	50.0	
Yonkers	103,324	7	4	4	.01	3	.03	75.0	
<b>Ohio:</b>									
Akron	208,435	6	15	6	.03	4	.02	66.7	
Cincinnati	403,418	8	25	8	.02	3	.01	37.5	
Cleveland	831,138	8	45	21	.03	9	.01	42.9	
Columbus	245,358	7	10			1			
Dayton	152,559	7	8	7	.05	0			
Youngstown	139,432	3	14	4	.03	1	.01	25.0	
<b>Oregon:</b>									
Portland	264,859	4	4	5	.02	1	.00	20.0	
<b>Pennsylvania:</b>									
Philadelphia	1,866,212	8	58	35	.02	22	.01	62.9	
Pittsburgh	602,452	8	16			14	.02		
Reading	105,593	7	1			4	.04		
Seranton	139,007	3	5			2	.01		
<b>Rhode Island:</b>									
Providence	239,645	8	18	11	.05	8	.03	72.7	
<b>Tennessee:</b>									
Memphis	165,656	4	15	13	.08	5	.03	38.5	
Nashville	122,036	8	10	6	.05	5	.04	83.3	
<b>Texas:</b>									
Dallas	165,282	6	8	5	.03	0			
Houston	144,340	5	4			3	.02		
San Antonio	171,387	7	7			7	.04		
<b>Utah:</b>									
Salt Lake City	121,595	7	5			5	.04		
<b>Virginia:</b>									
Norfolk	121,260	3	5	3	.02	2	.02	66.7	
Richmond	175,686	4	3	5	.03	3	.02	60.0	
<b>Washington:</b>									
Seattle	1,315,312	7	3			3	.01		
Spokane	104,442	4	1			1	.01		

## DIPHTHERIA.

Alabama:								
Birmingham	190,133	8	175	271	1.46	8	0.04	3.0
California:								
Los Angeles	614,160	8	664	2,842	4.03	85	.14	3.0
Oakland	226,472	7	157	534	2.36	37	.16	6.9
San Francisco	530,546	8	827	1,712	3.29	141	.27	8.2
Colorado:								
Denver	203,152	8	399	734	2.79	38	.14	5.2

<sup>1</sup> Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## DIPHTHERIA—Continued.

City.	Estimated population, July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Connecticut:								
Bridgeport	143,555	8	296	478	3.33	27	0.19	5.6
Hartford	144,080	7	361	426	2.96	15	.10	3.5
New Haven	167,007	8	329	501	3.00	24	.14	4.8
Delaware:								
Wilmington	113,408	7	84	87	.77	6	.05	6.9
District of Columbia:								
Washington	1,437,571	8	646	935	2.14	57	.13	6.1
Georgia:								
Atlanta	207,473	5	223	208	1.44	21	.10	7.0
Illinois:								
Chicago	2,780,655	8	7,025	9,313	3.35	683	.25	7.3
Indiana:								
Indianapolis	325,632	8	539	1,267	3.89	84	.26	6.6
Iowa:								
Des Moines	132,663	4	160	204	2.22	21	.16	7.1
Kansas:								
Kansas City	103,884	5	169	427	4.11	18	.17	4.2
Kentucky:								
Louisville	236,083	8	255	946	4.01	32	.14	3.4
Louisiana:								
New Orleans	394,657	8	853	385	.98	13	.03	3.4
Maryland:								
Baltimore	750,864	8	1,192	1,423	1.90	89	.12	6.3
Massachusetts:								
Boston	757,634	8	2,672	2,992	3.95	148	.20	4.9
Cambridge	110,444	5	249	227	2.06	12	.11	5.3
Fall River	120,668	8	184	223	1.85	23	.10	10.3
Lowell	113,757	8	243	263	2.31	35	.31	13.3
New Bedford	125,012	7	133	295	2.35	25	.21	8.8
Springfield	135,877	8	160	249	1.83	23	.17	9.2
Worcester	184,972	7	306	240	1.30	26	.14	10.4
Michigan:								
Detroit	1,070,450	8	3,235	4,689	4.38	334	.31	7.1
Grand Rapids	141,197	8	183	451	3.19	43	.30	9.5
Minnesota:								
Minneapolis	392,815	6	989	1,452	3.70	54	.14	3.7
St. Paul	237,781	8	907	822	3.46	36	.15	4.4
Missouri:								
Kansas City	336,157	8	521	1,221	3.63	81	.24	6.6
St. Louis	780,164	8	3,439	3,564	4.53	162	.21	4.5
Nebraska:								
Omaha	197,056	7	300	828	4.20	88	.45	10.6
New Jersey:								
Camden	119,672	7	193	246	2.06	24	.20	9.8
Jersey City	302,788	8	835	955	3.15	70	.26	8.3
Newark	424,885	8	1,111	1,059	2.49	42	.10	4.0
Paterson	137,493	8	243	386	2.81	32	.23	8.3
Trenton	122,700	7	240	287	2.34	30	.24	10.5
New York:								
Albany	115,071	8	126	356	3.00	21	.18	5.9
Buffalo	519,608	8	967	1,960	3.77	148	.28	7.6
New York	5,751,967	8	14,060	15,110	2.63	891	.15	5.9
Rochester	303,229	7	367	1,520	4.98	77	.25	5.1
Syracuse	177,265	8	300	1,090	5.09	77	.43	7.1
Yonkers	103,324	7	269	187	1.81	13	.13	7.0
Ohio:								
Akron	1,208,435	7	294	519	2.49	30	.14	5.8
Cincinnati	403,418	8	848	1,025	2.54	60	.17	6.7
Cleveland	831,138	8	1,969	1,788	2.15	167	.22	10.5
Columbus	245,358	8	321	1,014	4.13	40	.16	3.9
Dayton	1,152,599	8	265	211	1.38	19	.12	9.0
Toledo	253,696	8	314	1,493	5.88	92	.36	6.2
Youngstown	139,432	5	184	172	1.23	4	.03	2.3
Oregon:								
Portland	264,850	5	132	1,567	5.92	50	.19	3.2
Pennsylvania:								
Philadelphia	1,866,212	8	2,619	3,382	1.81	323	.17	9.6
Pittsburgh	602,452	8	1,363	1,633	2.71	131	.22	8.0
Reading	105,593	7	171	341	3.23	30	.37	11.4
Scranton	139,007	7	292	266	1.91	36	.26	13.5
Rhode Island:								
Providence	230,645	8	822	560	2.37	18	.08	3.2
Tennessee:								
Memphis	165,656	4	530	507	3.60	17	.10	2.8
Nashville	122,036	8	102	875	2.25	13	.11	4.7

<sup>1</sup> Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## DIPHTHERIA—Continued.

City.	Estimated population, July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Texas:								
Dallas	165,282	6	126	258	1.56	14	0.08	5.4
Fort Worth	111,423	6	110	100	.90	4	.04	4.0
Houston	144,340	5	102	245	1.70	12	.08	4.9
San Antonio	171,387	7	167	184	1.07	20	.12	10.9
Utah:								
Salt Lake City	121,595	8	214	1.76	22	.18	10.3	
Virginia:								
Norfolk	121,260	3	101	145	1.20	3	.02	2.1
Richmond	175,686	7	253	408	2.32	17	.10	4.2
Washington:								
Seattle	1,315,312	8	191	403	1.28	19	.06	4.7
Spokane	104,443	6	63	208	1.97	15	.14	7.3
Wisconsin:								
Milwaukee	468,386	7	1,017	1,404	3.00	84	.18	6.0
68 cities	28,176,530	.....	59,093	81,954	2.91	5,201	.18	6.3

## INFLUENZA.

City.	Estimated population, July 1, 1921.	Cases reported, 1921.	Cases per 1,000 inhabitants.	Deaths registered, 1921.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:						
Birmingham	186,133	.....		37	0.20	.....
California:						
Los Angeles	614,160	125	0.20	21	.03	6.0
San Francisco	520,546	286	.55	33	.06	8.7
Colorado:						
Denver	263,152	.....		20	.08	.....
Connecticut:						
Bridgeport	143,555	.....		7	.05	.....
Hartford	144,080	15	.10	4	.03	3.7
New Haven	167,007	.....		3	.02	.....
District of Columbia:						
Washington	143,571	66	.15	34	.08	1.9
Georgia:						
Atlanta	207,473	125	.60	19	.00	6.6
Illinois:						
Chicago	2,790,655	600	.25	111	.04	6.2
Iowa:						
Des Moines	132,663	.....		11	.08	.....
Kansas:						
Kansas City	103,884	3	.03	1	.01	3.0
Kentucky:						
Louisville	263,083	11	.05	2	.01	5.5
Louisiana:						
New Orleans	394,657	.....		54	.14	.....
Maryland:						
Baltimore	750,864	1,290	1.72	61	.08	21.1
Massachusetts:						
Boston	757,634	148	.20	22	.03	6.7
Cambridge	110,444	38	.34	2	.02	19.0
Fall River	120,668	13	.11	7	.06	1.9
Lowell	113,757	2	.02	1	.01	2.0
New Bedford	125,012	3	.02	0	.....	.....
Springfield	135,877	.....		9	.07	.....
Worcester	184,972	45	.24	6	.03	7.5
Michigan:						
Detroit	1,070,450	80	.08	29	.03	3.1
Grand Rapids	141,197	7	.05	0	.....	.....
Minnesota:						
Minneapolis	392,815	.....		31	.08	.....
St. Paul	237,781	.....		11	.05	.....
Missouri:						
Kansas City	336,157	59	.18	49	.15	1.2
St. Louis	786,164	32	.04	8	.01	4.0

1 Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## INFLUENZA—Continued.

City.	Estimated population, July 1, 1921.	Cases reported, 1921.	Cases per 1,000 inhabitants.	Deaths registered, 1921.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Nebraska:						
Omaha.....	197,066	.....	.....	7	0.04	.....
New Jersey:						
Camden.....	119,672	5	.04	2	.02	2.5
Jersey City.....	302,788	.....	.....	30	.10	.....
Newark.....	424,885	356	.84	18	.04	19.8
Paterson.....	137,463	.....	.....	1	.01	.....
Trenton.....	122,760	56	.46	14	.11	4.0
New York:						
Albany.....	115,071	127	1.10	10	.09	12.7
Buffalo.....	519,608	42	.08	3	.01	14.0
New York.....	5,751,867	2,486	.43	384	.07	6.5
Rochester.....	305,229	.....	.....	8	.03	.....
Syracuse.....	177,265	.....	.....	2	.01	.....
Yonkers.....	103,324	7	.07	4	.04	1.7
Ohio:						
Akron.....	1,208,435	15	.07	5	.02	3.0
Cincinnati.....	403,418	.....	.....	44	.11	.....
Cleveland.....	831,138	45	.05	25	.03	1.8
Columbus.....	245,358	.....	.....	21	.09	.....
Dayton.....	1,152,559	.....	.....	8	.05	.....
Toledo.....	253,696	.....	.....	22	.09	.....
Oregon:						
Portland.....	264,559	.....	.....	9	.03	.....
Pennsylvania:						
Philadelphia.....	1,866,212	176	.09	142	.08	1.2
Pittsburgh.....	602,452	79	.13	73	.12	1.1
Reading.....	105,593	.....	.....	12	.11	.....
Scranton.....	139,007	.....	.....	24	.17	.....
Rhode Island:						
Providence.....	239,645	13	.05	7	.03	1.9
Tennessee:						
Memphis.....	165,656	.....	.....	14	.08	.....
Nashville.....	122,036	.....	.....	34	.23	.....
Texas:						
Dallas.....	165,282	65	.39	17	.10	3.8
Fort Worth.....	111,423	.....	.....	7	.06	.....
Houston.....	144,340	.....	.....	7	.06	.....
San Antonio.....	171,387	.....	.....	7	.04	.....
Utah:						
Salt Lake City.....	121,595	.....	.....	4	.03	.....
Virginia:						
Richmond.....	175,686	.....	.....	19	.11	.....
Washington:						
Seattle.....	1,315,312	.....	.....	37	.12	.....
Spokane.....	104,442	33	.32	10	.18	1.7
Wisconsin:						
Milwaukee.....	468,386	.....	.....	7	.01	.....

## MALARIA.

Alabama:						
Birmingham.....	186,133	26	0.14	7	0.04	3.7
California:						
Los Angeles.....	614,160	11	.02	3	.00	3.7
Oakland.....	226,472	1	.00	0	.....	.....
San Francisco.....	520,546	4	.01	2	.00	2.0
Connecticut:						
Hartford.....	144,080	1	.01	.....	.....	.....
District of Columbia:						
Washington.....	1,437,571	.....	.....	2	.00	.....
Georgia:						
Atlanta.....	207,473	50	.24	2	.01	25.0
Illinois:						
Chicago.....	2,730,656	23	.01	1	.00	23.0
Kansas:						
Kansas City.....	103,884	1	.01	0	.....	.....
Kentucky:						
Louisville.....	236,083	6	.03	2	.01	3.0
Louisiana:						
New Orleans.....	304,657	50	.15	15	.04	3.9

1 Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## MALARIA—Continued.

City.	Estimated population July 1, 1921.	Cases reported, 1921.	Cases per 1,000 inhabitants.	Deaths registered, 1921.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Maryland:						
Baltimore.....	730,864	20	0.03	0	-----	-----
Massachusetts:						
Boston.....	757,634	18	.02	0	-----	-----
Fall River.....	120,668	3	.02	0	-----	-----
Worcester.....	184,972	2	.01	0	-----	-----
Michigan:						
Detroit.....	1,070,450	12	.01	0	-----	-----
Missouri:						
Kansas City.....	336,157	4	.01	3	0.01	1.3
St. Louis.....	780,164	-----	-----	3	.00	-----
Nebraska:						
Omaha.....	197,066	-----	-----	1	.01	-----
New Jersey:						
Jersey City.....	302,788	7	.02	0	-----	-----
Newark.....	424,885	15	.04	0	-----	-----
Paterson.....	137,463	4	.03	0	-----	-----
Trenton.....	122,760	4	.03	0	-----	-----
New York:						
New York.....	5,751,867	110	.02	6	.00	18.3
Ohio:						
Cleveland.....	831,138	11	.01	1	.00	11.0
Oregon:						
Portland.....	264,859	-----	-----	3	.01	-----
Pennsylvania:						
Philadelphia.....	1,866,212	8	.00	1	.00	8.0
Tennessee:						
Memphis.....	165,656	251	1.52	62	.37	4.0
Nashville.....	122,036	-----	-----	4	.03	-----
Texas:						
Dallas.....	165,282	181	1.10	12	.07	15.1
Fort Worth.....	111,423	-----	-----	2	.02	-----
Houston.....	144,340	-----	-----	16	.11	-----
San Antonio.....	171,387	-----	-----	10	.06	-----
Virginia:						
Norfolk.....	121,260	6	.05	0	-----	-----
Richmond.....	175,686	-----	-----	1	.01	-----
Washington:						
Seattle.....	1,315,312	-----	-----	1	.00	-----

## MEASLES.

City.	Estimated population July 1, 1921.	Median.		1921			
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.
Alabama:							
Birmingham.....	186,133	8	1,504	373	2.00	7	0.04
California:							
Los Angeles.....	614,160	8	3,415	4,077	6.64	8	.01
Oakland.....	226,472	7	445	74	.33	0	-----
San Francisco.....	520,546	8	1,806	665	1.28	9	.02
Colorado:							
Denver.....	263,152	8	2,262	1,947	7.40	16	.06
Connecticut:							
Bridgeport.....	143,555	7	308	77	.54	1	.01
Hartford.....	144,080	7	447	367	2.55	4	.03
New Haven.....	167,007	8	540	72	.43	1	.01
Delaware:							
Wilmington.....	113,408	5	111	24	.21	1	.01
District of Columbia:							
Washington.....	1,437,571	8	2,291	4,157	9.50	11	.03
Georgia:							
Atlanta.....	207,473	4	535	486	2.34	8	.04

1 Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## MEASLES—Continued.

City.	Estimated population July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Illinois:								
Chicago.	2,780,655	8	12,078	8,731	3.14	120	0.04	1.4
Indiana:								
Indianapolis.	325,632	8	3,818	292	.90	2	.01	.7
Iowa:								
Des Moines.	132,663	2	71	50	.38	7	.05	14.0
Kansas:								
Kansas City.	103,884	5	709	200	2.79	0	-----	-----
Kentucky:								
Louisville.	236,083	8	278	1,001	4.25	0	-----	-----
Louisiana:								
New Orleans.	394,657	8	972	883	2.24	32	.08	3.6
Maryland:								
Baltimore.	750,864	8	4,637	2,236	2.98	25	.03	1.1
Massachusetts:								
Boston.	757,634	8	5,484	3,396	4.48	38	.06	1.1
Cambridge.	110,444	5	1,085	908	8.22	5	.06	.6
Fall River.	120,668	8	560	391	3.24	28	.23	7.2
Lowell.	113,757	8	516	731	6.43	6	.05	.8
New Bedford.	125,012	7	439	35	.28	0	-----	-----
Springfield.	135,877	8	625	146	1.07	4	.03	2.7
Worcester.	184,973	7	349	1,192	6.44	19	.10	1.6
Michigan:								
Detroit.	1,070,450	6	1,971	1,485	1.39	35	.03	2.4
Grand Rapids.	141,197	8	1,085	43	.30	0	-----	-----
Minnesota:								
Minneapolis.	392,815	6	1,043	307	1.01	4	.01	1.0
St. Paul.	237,781	8	1,336	103	.45	1	.00	.9
Missouri:								
Kansas City.	336,157	8	1,366	1,278	3.80	13	.04	1.0
St. Louis.	786,164	7	5,321	302	.38	4	.01	1.3
Nebraska:								
Omaha.	197,066	6	533	400	2.03	3	.02	.7
New Jersey:								
Camden.	119,672	7	312	72	.60	0	-----	-----
Jersey City.	302,788	8	1,157	588	1.94	24	.08	4.1
Newark.	424,885	8	4,180	1,339	3.15	13	.03	1.0
Paterson.	137,463	8	577	243	1.77	1	.01	.4
Trenton.	122,760	7	346	300	2.44	4	.03	1.3
New York:								
Albany.	115,071	8	586	891	7.74	3	.03	.3
Buffalo.	519,608	8	3,469	1,463	2.82	26	.05	1.8
New York.	5,751,867	8	28,047	7,738	1.35	165	.03	2.1
Rochester.	305,229	7	1,674	82	.27	7	.02	8.5
Syracuse.	177,265	8	1,640	1,211	6.83	6	.03	.5
Yonkers.	103,324	7	785	267	2.58	0	-----	-----
Ohio:								
Akron.	1,208,435	7	341	175	.84	0	-----	-----
Cincinnati.	403,418	8	1,112	395	.98	13	.03	3.3
Cleveland.	831,138	8	3,114	1,259	1.51	25	.03	2.0
Columbus.	245,358	8	970	46	.19	3	.01	6.5
Dayton.	1,152,559	8	613	36	.24	1	.01	2.8
Toledo.	253,696	8	1,251	98	.39	0	-----	-----
Youngstown.	139,432	5	370	1,104	7.92	11	.09	1.0
Oregon:								
Portland.	264,850	5	1,527	1,881	7.10	0	-----	-----
Pennsylvania:								
Philadelphia.	1,866,212	8	10,968	1,367	.73	23	.01	1.7
Pittsburgh.	602,452	8	5,660	1,910	3.17	24	.04	1.3
Reading.	105,593	7	945	419	3.97	3	.03	.7
Scranton.	139,007	7	433	230	1.65	2	.01	.9
Rhode Island:								
Providence.	230,645	8	351	2,410	10.06	45	.19	1.9
Tennessee:								
Memphis.	165,656	4	620	1,813	10.97	4	.02	.2
Nashville.	122,036	8	490	250	2.05	2	.02	.8
Texas:								
Dallas.	165,282	6	64	1,919	11.61	6	.04	.3
Fort Worth.	111,423	6	82	18	.16	2	.03	11.1
Houston.	144,340	4	343	31	.21	0	-----	-----
San Antonio.	171,387	7	137	293	1.71	5	.03	1.7

<sup>1</sup> Enumerated population Jan. 1, 1920.

Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.  
MEASLES—Continued.

City.	Estimated population July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Utah:								
Salt Lake City.....	121,595	8	1,072	1,977	16.26	23	0.19	1.2
Virginia:								
Norfolk.....	121,260	3	327	959	7.91	0	.....	.....
Richmond.....	175,686	7	1,424	992	5.65	4	.02	.4
Washington:								
Seattle.....	1,315,312	8	1,923	124	.39	0	.....	.....
Spokane.....	104,442	6	1,005	399	3.82	1	.01	.3
Wisconsin:								
Milwaukee.....	468,386	7	1,527	305	.65	1	.00	.3
68 cities.....	28,176,530	.....	137,451	71,226	2.53	859	.03	1.2

## PELLAGRA.

City.	Estimated population July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:								
Birmingham.....	186,133	4	113	34	0.18	26	0.14	1.3
California:								
Los Angeles.....	614,160	6	7	3	.00	2	.00	1.5
San Francisco.....	520,546	3	1	5	.01	1	.00	5.0
Georgia:								
Atlanta.....	207,473	.....	.....	.....	.....	22	.11	.....
Illinois:								
Chicago.....	2,780,655	.....	.....	.....	.....	3	.00	.....
Indiana:								
Indianapolis.....	325,632	4	0	1	.00	.....	.....	.....
Kentucky:								
Louisville.....	236,083	5	2	.....	.....	1	.00	.....
Louisiana:								
New Orleans.....	394,657	6	52	30	.08	24	.06	1.2
Maryland:								
Baltimore.....	750,864	2	3	5	.01	4	.01	1.2
Massachusetts:								
Boston.....	757,634	6	6	5	.01	4	.01	1.2
Missouri:								
St. Louis.....	786,164	.....	.....	.....	.....	4	.01	.....
New York:								
Albany.....	115,071	8	0	.....	.....	1	.01	.....
New York.....	5,751,867	4	4	.....	.....	7	.00	.....
Syracuse.....	177,265	2	0	.....	.....	1	.01	.....
Ohio:								
Cleveland.....	831,138	4	1	.....	.....	1	.00	.....
Pennsylvania:								
Philadelphia.....	1,866,212	5	3	.....	.....	4	.00	.....
Pittsburgh.....	602,452	5	0	.....	.....	1	.00	.....
Tennessee:								
Memphis.....	165,656	2	103	33	.20	24	.14	1.4
Nashville.....	122,036	4	213	.....	.....	9	.07	.....
Texas:								
Dallas.....	165,282	5	35	27	.16	24	.15	1.1
Fort Worth.....	111,423	1	20	.....	.....	18	.16	.....
Houston.....	144,340	2	21	.....	.....	13	.09	.....
Virginia:								
Norfolk.....	121,260	1	3	.....	.....	7	.06	.....
Richmond.....	175,686	4	23	.....	.....	4	.02	.....
23 cities.....	217,584,057	.....	.....	.....	.....	205	.01	.....

<sup>1</sup> Enumerated population Jan. 1, 1920.<sup>2</sup> Indianapolis not included.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## PNEUMONIA (ALL FORMS).

City.	Estimated population, July 1, 1921.	Cases reported, 1921.	Cases per 1,000 inhabitants.	Deaths registered, 1921.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:						
Birmingham	186,133			251	1.35	
California:						
Los Angeles	614,160	1,431	2.33	495	.81	2.9
Oakland	226,472			168	.74	
San Francisco	520,546			611	1.17	
Colorado:						
Denver	263,152			479	1.82	
Connecticut:						
Bridgeport	<sup>1</sup> 143,555	<sup>2</sup> 120	<sup>2</sup> .84	168	1.17	
Hartford	144,080	<sup>2</sup> 113	<sup>2</sup> .78	63	.47	
New Haven	167,007	<sup>2</sup> 49	<sup>2</sup> .29	108	1.19	
Delaware:						
Wilmington	113,408			100	1.41	
District of Columbia:						
Washington	<sup>1</sup> 437,571			549	1.25	
Georgia:						
Atlanta	207,473			347	1.67	
Illinois:						
Chicago	2,780,655	8,336	3.00	2,152	.77	3.9
Indiana:						
Indianapolis	325,632			313	.96	
Kansas:						
Kansas City	103,884	120	1.16	53	.51	2.3
Kentucky:						
Louisville	236,083			258	1.09	
Louisiana:						
New Orleans	394,657			492	1.25	
Maryland:						
Baltimore	750,864	2,095	2.70	1,002	1.33	2.1
Massachusetts:						
Boston	757,634	<sup>2</sup> 1,098	<sup>2</sup> 1.45	883	1.17	
Cambridge	110,444	<sup>2</sup> 152	<sup>2</sup> 1.38	48	.43	
Fall River	120,668	<sup>2</sup> 168	<sup>2</sup> 1.39	179	1.48	
Lowell	113,757	<sup>2</sup> 92	<sup>2</sup> .81	145	1.27	
New Bedford	125,012	<sup>2</sup> 72	<sup>2</sup> .58	29	.23	
Springfield	135,877	<sup>2</sup> 145	<sup>2</sup> 1.07	114	.84	
Worcester	184,972	<sup>2</sup> 302	<sup>2</sup> 1.63	118	.64	
Michigan:						
Detroit	1,070,450	2,054	1.92	897	.84	2.3
Grand Rapids	141,197	216	1.53	84	.59	2.6
Minnesota:						
Minneapolis	392,815			336	.86	
St. Paul	237,781			194	.82	
Missouri:						
Kansas City	336,157			424	1.26	
St. Louis	756,164			1,206	1.53	
Nebraska:						
Omaha	107,066			244	1.24	
New Jersey:						
Camden	119,672			204	1.70	
Jersey City	302,788			453	1.50	
Newark	424,885	<sup>2</sup> 480	5.85	382	.00	6.5
Paterson	137,463			195	1.42	
Trenton	122,760	240	1.96	168	1.37	1.4
New York:						
Albany	115,071	419	3.64	101	.88	4.1
Buffalo	519,608	<sup>1</sup> 114	2.14	378	.73	2.9
New York	5,751,867	<sup>14</sup> 144	2.46	6,477	1.13	2.2
Rochester	305,220	518	1.80	235	.77	2.3
Syracuse	177,265	294	1.66	155	.87	1.9
Yonkers	103,324	216	2.09	90	.96	2.2
Ohio:						
Akron	<sup>1</sup> 208,435			171	.82	
Cincinnati	402,418			427	1.06	
Cleveland	831,138	<sup>1</sup> 113	<sup>1</sup> 1.34	784	.94	1.4
Columbus	245,358			221	.90	
Dayton	<sup>1</sup> 152,559			103	.68	
Toledo	253,696			168	.66	
Youngstown	139,432			151	1.08	
Oregon:						
Portland	264,869			200	.76	

<sup>1</sup> Enumerated population Jan. 1, 1920.<sup>2</sup> Lobar pneumonia only.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## PNEUMONIA (ALL FORMS)—Continued.

City.	Estimated population, July 1, 1921.	Cases reported, 1921.	Cases per 1,000 inhabitants.	Deaths registered, 1921.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Pennsylvania:						
Philadelphia.....	1,866,212	3,525	1.89	2,441	1.31	1.4
Pittsburgh.....	602,452			1,730	2.87	
Reading.....	105,593			134	1.27	
Scranton.....	139,007			224	1.61	
Rhode Island:						
Providence.....	239,645			281	1.17	
Tennessee:						
Memphis.....	165,656			246	1.49	
Nashville.....	122,036			92	.75	
Texas:						
Dallas.....	165,282	200	1.21	132	.80	1.5
Fort Worth.....	111,423			106	.95	
Houston.....	144,340			113	.78	
San Antonio.....	171,387			181	1.06	
Utah:						
Salt Lake City.....	121,595			127	1.04	
Virginia:						
Richmond.....	175,686			220	1.25	
Washington:						
Seattle.....	1315,312			25	.08	
Spokane.....	104,442	153	1.46	133	1.27	1.2
Wisconsin:						
Milwaukee.....	468,386			404	.86	
67 cities.....	27,922,607			30,326	1.09	

## POLIOMYELITIS (INFANTILE PARALYSIS).

City.	Estimated population, July 1, 1921.	Median.		1921			
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.
Alabama:							
Birmingham.....	186,133	8	3	1	0.01	0	
California:							
Los Angeles.....	614,160	8	12	17	.03	5	0.01
Oakland.....	226,472	6	2	9	.04	0	
San Francisco.....	520,546	8	7	60	.12	11	.02
Colorado:							
Denver.....	263,152	6	3			3	.01
Connecticut:							
Bridgeport.....	143,555	6	2	8	.06	4	.03
Hartford.....	144,080	7	4	4	.03	2	.01
New Haven.....	167,007	6	2	9	.05	3	.02
District of Columbia:							
Washington.....	1437,571	8	6	40	.09	7	.02
Georgia:							
Atlanta.....	207,473	5	0	2	.01	0	
Illinois:							
Chicago.....	2,780,655	8	87	135	.05	30	.01
Indiana:							
Indianapolis.....	325,632	7	3	2	.01	0	
Iowa:							
Des Moines.....	132,663	3	2			6	.05
Louisiana:							
New Orleans.....	394,657	8	4	5	.01	0	
Maryland:							
Baltimore.....	750,864	8	20	148	.20	22	.03
Massachusetts:							
Boston.....	757,634	8	21	50	.07	12	.02
Cambridge.....	110,444	5	6	4	.04	0	
Fall River.....	120,668	7	5	2	.02	0	

<sup>1</sup> Enumerated population, Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## POLIOMYELITIS (INFANTILE PARALYSIS)—Continued.

City.	Estimated population July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Massachusetts—Continued.								
Lowell	113,757	7	9	1	.01	0	-----	-----
New Bedford	125,012	7	1	2	.02	0	-----	-----
Springfield	135,877	8	6	8	.06	0	-----	-----
Michigan:								
Detroit	1,070,450	6	17	111	.10	26	.02	23.4
Grand Rapids	141,197	7	4	4	.03	1	.01	25.0
Minnesota:								
Minneapolis	392,815	6	6	44	.11	10	.03	22.7
St. Paul	237,781	8	4	36	.15	4	.02	11.1
Missouri:								
Kansas City	336,157	6	5	23	.07	7	.02	30.4
St. Louis	789,164	8	14	51	.06	19	.02	37.3
Nebraska:								
Omaha	107,066	6	4	6	.03	3	.02	50.0
New Jersey:								
Camden	119,672	6	1	2	.02	0	-----	-----
Jersey City	302,788	8	2	16	.05	3	.01	18.7
Newark	424,885	8	20	15	.04	4	.01	26.7
Paterson	137,463	8	2	19	.14	3	.02	15.8
Trenton	122,760	7	1	4	.03	1	.01	25.0
New York:								
Buffalo	519,608	8	8	14	.03	5	.01	35.7
New York	5,751,867	8	136	588	.10	143	.02	24.3
Rochester	305,229	7	3	8	.03	1	.00	12.5
Syracuse	177,265	7	4	15	.08	2	.01	13.3
Yonkers	103,324	7	1	5	.05	2	.02	40.0
Ohio:								
Akron	1208,435	5	6	15	.07	8	.04	53.3
Cincinnati	403,418	7	8	10	.02	3	.01	30.0
Cleveland	831,138	8	28	36	.04	5	.01	13.9
Columbus	245,358	8	3	-----	-----	4	.02	-----
Dayton	152,559	7	2	5	.03	2	.01	40.0
Toledo	253,696	6	10	4	.02	2	.01	50.0
Youngstown	139,432	5	3	12	.09	5	.04	41.7
Oregon:								
Portland	264,859	5	3	13	.05	4	.02	30.8
Pennsylvania:								
Philadelphia	1,866,212	8	18	52	.03	8	.00	15.4
Pittsburgh	602,452	8	13	21	.03	6	.01	28.6
Reading	103,593	7	2	-----	-----	1	.01	-----
Rhode Island:								
Providence	239,645	8	9	2	.01	0	-----	-----
Tennessee:								
Memphis	165,656	4	0	-----	-----	1	.01	-----
Nashville	122,036	6	1	-----	-----	2	.02	-----
Utah:								
Salt Lake City	121,505	6	4	-----	-----	3	.02	-----
Virginia:								
Norfolk	121,260	3	0	11	.09	0	-----	-----
Richmond	175,086	5	5	10	.06	1	.01	10.0
Washington:								
Seattle	1315,312	7	2	41	.13	14	.04	34.1
Spokane	104,442	6	1	35	.34	18	.17	51.4
Wisconsin:								
Milwaukee	468,386	5	16	32	.07	6	.01	18.7
58 cities	26,691,673	-----	-----	-----	-----	432	.02	-----

<sup>1</sup> Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## RABIES IN ANIMALS.

City.	Cases reported, 1921.	City.	Cases reported, 1921.
Alabama:		New Jersey:	
Birmingham.....	54	Jersey City.....	6
California:		New York:	
Los Angeles.....	40	New York.....	85
District of Columbia:		Ohio:	
Washington.....	12	Cincinnati.....	5
Kentucky:		Cleveland.....	106
Louisville.....	6	Dayton.....	5
Massachusetts:		Rhode Island:	
Boston.....	15	Providence.....	14
Springfield.....	2	Virginia:	
Michigan:		Richmond.....	3
Detroit.....	30	Wisconsin:	
Missouri:		Milwaukee.....	1
Kansas City.....	52		
St. Louis.....	26		

## RABIES IN MAN.

City.	Cases reported, 1921.	Deaths registered, 1921.	City.	Cases reported, 1921.	Deaths registered, 1921.
California:			Ohio:		
Los Angeles.....	1	1	Cleveland.....		1
Kentucky:			Pennsylvania:		
Louisville.....	1	1	Pittsburgh.....	1	1
Massachusetts:			Rhode Island:		
Boston.....	1	1	Providence.....	2	2
New York:			Texas:		
New York.....		3	Houston.....	1	1
Rochester.....	1	1			

## SCARLET FEVER.

City.	Estimated population July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Alabama:								
Birmingham.....	186,133	8	205	168	0.90	3	0.02	1.8
California:								
Los Angeles.....	614,160	8	450	833	1.39	28	.05	3.3
Oakland.....	226,472	7	281	269	1.19	2	.01	.7
San Francisco.....	520,546	8	429	574	1.10	5	.01	.9
Colorado:								
Denver.....	263,152	8	432	480	1.62	7	.03	1.5
Connecticut:								
Bridgeport.....	143,555	8	144	521	3.63	23	.16	4.4
Hartford.....	144,080	7	160	170	1.18	11	.08	6.5
New Haven.....	167,007	8	223	781	4.68	8	.05	1.0
Delaware:								
Wilmington.....	113,408	7	82	371	3.27	5	.04	1.3
District of Columbia:								
Washington.....	1437,571	8	624	853	1.95	9	.02	1.1
Georgia:								
Atlanta.....	207,473	5	177	290	1.40	8	.01	2.8
Illinois:								
Chicago.....	2,780,655	8	6,553	5,459	1.96	180	.06	3.3
Indiana:								
Indianapolis.....	325,632	8	550	1,443	4.43	20	.06	1.4

\*Estimated population Jan. 1, 1921.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## SCARLET FEVER—Continued.

City.	Estimated population July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Iowa:								
Des Moines.....	132,663	4	183	340	2.56	2	.02	.6
Kansas:								
Kansas City.....	103,884	5	179	143	1.38	0		
Kentucky:								
Louisville.....	236,093	8	203	553	2.34	7	.03	1.3
Louisiana:								
New Orleans.....	394,657	8	119	247	.63	3	.01	1.2
Maryland:								
Baltimore.....	750,964	8	1,052	1,065	1.42	11	.01	1.0
Massachusetts:								
Boston.....	757,634	8	2,027	1,999	2.64	53	.07	2.7
Cambridge.....	110,444	5	161	258	2.34	2	.02	.8
Fall River.....	120,668	8	130	118	.98	2	.02	1.7
Lowell.....	113,757	8	111	50	.44	0		
New Bedford.....	125,012	7	137	225	1.80	1	.01	.4
Springfield.....	135,877	8	178	336	2.47	2	.01	.6
Worcester.....	184,972	7	272	300	2.16	13	.07	3.3
Michigan:								
Detroit.....	1,070,450	8	1,751	3,125	2.02	117	.11	3.7
Grand Rapids.....	141,197	8	321	297	2.10	2	.01	.7
Minnesota:								
Minneapolis.....	392,815	6	690	2,350	6.01	54	.14	2.3
St. Paul.....	237,781	8	514	1,137	4.78	20	.08	1.8
Missouri:								
Kansas City.....	336,157	8	335	395	1.18	8	.02	2.0
St. Louis.....	786,164	8	1,134	1,735	2.21	40	.05	2.3
Nebraska:								
Omaha.....	197,066	7	412	344	1.75	5	.03	1.5
New Jersey:								
Camden.....	119,672	7	95	272	2.27	1	.01	.4
Jersey City.....	302,788	8	601	533	1.76	8	.03	1.5
Newark.....	424,835	8	852	1,948	4.58	25	.06	1.3
Paterson.....	137,463	8	118	226	1.64	6	.04	2.7
Trenton.....	122,760	7	94	266	2.17	8	.07	3.0
New York:								
Albany.....	115,071	8	163	144	1.25	2	.02	1.4
Buffalo.....	519,508	8	641	1,131	2.18	55	.11	4.9
New York.....	5,751,867	8	6,398	13,516	2.35	385	.07	2.8
Rochester.....	305,229	7	511	291	.95	19	.06	6.5
Syracuse.....	177,265	8	375	775	4.37	13	.07	1.7
Yonkers.....	103,324	7	167	384	3.72	9	.00	2.3
Ohio:								
Akron.....	208,435	7	270	540	2.59	12	.06	2.2
Cincinnati.....	403,418	8	450	644	1.60	13	.03	2.0
Cleveland.....	831,138	8	742	2,357	2.84	120	.14	5.1
Columbus.....	245,358	8	300	439	1.79	14	.06	3.2
Dayton.....	152,559	8	247	176	1.15	15	.10	8.5
Toledo.....	253,696	8	518	442	1.74	7	.03	1.6
Youngstown.....	139,432	5	172	364	2.01	13	.09	3.6
Oregon:								
Portland.....	264,859	5	392	265	1.00	3	.01	1.1
Pennsylvania:								
Philadelphia.....	1,866,212	8	1,806	6,432	3.45	104	.06	1.6
Pittsburgh.....	602,452	8	1,071	1,739	2.89	48	.08	2.8
Reading.....	105,593	7	143	161	1.52	1	.01	.6
Scranton.....	139,007	7	204	171	1.23	3	.02	1.8
Rhode Island:								
Providence.....	239,645	8	563	319	1.33	6	.03	1.9
Tennessee:								
Memphis.....	165,656	4	189	167	1.01	2	.01	1.2
Nashville.....	122,036	7	111	238	1.95	3	.02	1.3
Texas:								
Dallas.....	165,282	6	97	110	.67	0		
Fort Worth.....	111,423	6	63	51	.46	0		
Houston.....	144,340	5	38	50	.35	0		
San Antonio.....	171,387	7	37	42	.25	0		
Utah:								
Salt Lake City.....	121,595	8	188	342	2.81	4	.03	1.2
Virginia:								
Norfolk.....	121,260	3	70	182	1.50	2	.02	1.1
Richmond.....	175,686	7	221	231	1.31	1	.01	.4

\* Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## SCARLET FEVER—Continued.

City.	Estimated population July 1, 1921.	Median.		1921				Fatalities per 100 cases.
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	
Washington:								
Seattle.....	1,315,312	8	218	300	0.95	2	0.01	0.7
Spokane.....	104,442	6	116	290	2.78	4	.04	1.4
Wisconsin:								
Milwaukee.....	468,336	7	1,287	1,322	2.82	54	.12	4.1
68 cities.....	28,176,530	.....	39,774	64,217	2.28	1,613	.06	2.5

## SMALLPOX.

Alabama:								
Birmingham.....	186,133	8	122	357	1.92	1	0.01	0.3
California:								
Los Angeles.....	614,160	8	69	244	.40	.....	.....	.....
Oakland.....	226,472	7	20	261	1.15	0	.....	.....
San Francisco.....	526,546	8	74	992	1.91	1	.00	.1
Colorado:								
Denver.....	263,152	8	140	924	3.51	37	.14	4.0
Connecticut:								
Bridgeport.....	1,143,555	8	0	7	.05	0	.....	.....
District of Columbia:								
Washington.....	1,437,571	8	68	66	.15	.....	.....	.....
Georgia:								
Atlanta.....	207,473	4	175	653	3.15	3	.01	.5
Illinois:								
Chicago.....	2,780,655	8	117	216	.09	4	.00	1.6
Indiana:								
Indianapolis.....	325,632	8	243	362	1.11	2	.01	.6
Iowa:								
Des Moines.....	132,663	4	163	223	1.68	.....	.....	.....
Kansas:								
Kansas City.....	103,884	5	244	243	2.34	15	.14	6.2
Kentucky:								
Louisville.....	236,083	8	52	67	.28	0	.....	.....
Louisiana:								
New Orleans.....	304,057	8	145	372	.94	39	.10	10.5
Maryland:								
Baltimore.....	750,584	7	34	15	.02	0	.....	.....
Massachusetts:								
Boston.....	757,634	8	4	6	.01	0	.....	.....
Worcester.....	184,972	5	0	6	.03	0	.....	.....
Michigan:								
Detroit.....	1,070,450	8	472	846	.79	2	.00	.2
Grand Rapids.....	141,197	7	39	13	.09	0	.....	.....
Minnesota:								
Minneapolis.....	392,815	6	511	2,615	6.00	3	.01	.1
St. Paul.....	237,781	8	210	1,562	0.57	2	.01	.1
Missouri:								
Kansas City.....	336,157	8	394	943	2.81	156	.46	16.5
St. Louis.....	786,164	8	141	524	.67	0	.....	.....
Nebraska:								
Omaha.....	197,066	6	458	445	2.26	3	.02	.7
New Jersey:								
Camden.....	119,672	5	3	12	.10	0	.....	.....
Jersey City.....	302,788	7	1	7	.02	0	.....	.....
Newark.....	424,885	5	2	13	.03	0	.....	.....
Trenton.....	122,700	5	0	16	.13	0	.....	.....
New York:								
Albany.....	115,071	8	0	1	.01	0	.....	.....
Buffalo.....	519,608	8	21	5	.01	1	.00	20.0
New York.....	5,751,867	8	19	29	.01	0	.....	.....
Rochester.....	305,229	6	2	3	.01	0	.....	.....
Syracuse.....	177,265	6	1	5	.03	0	.....	.....
Ohio:								
Akron.....	1,208,435	7	82	163	.78	0	.....	.....
Cincinnati.....	403,418	7	81	118	.29	1	.00	.8
Cleveland.....	831,138	8	169	87	.10	0	.....	.....
Columbus.....	245,358	8	77	273	1.11	0	.....	.....
Dayton.....	1,152,559	7	17	67	.44	0	.....	.....
Toledo.....	253,606	8	169	504	1.99	0	.....	.....
Youngstown.....	139,432	5	202	9	.05	0	.....	.....

<sup>1</sup> Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## SMALLPOX—Continued.

City.	Estimated population July 1, 1921.	Median.		1921				
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Deaths per 1,000 inhabitants.	Fatalities per 100 cases.
Oregon:								
Portland.	264,859	5	137	561	2.12	1	0.00	0.2
Pennsylvania:								
Philadelphia.	1,866,212	7	12	3	.00	0	-----	-----
Pittsburgh.	602,452	8	12	8	.01	0	-----	-----
Rhode Island:								
Providence.	239,645	7	0	1	.00	0	-----	-----
Tennessee:								
Memphis.	165,656	4	239	150	.91	0	-----	-----
Nashville.	122,036	8	33	125	1.02	0	-----	-----
Texas:								
Dallas.	165,282	6	209	140	.85	0	-----	-----
Fort Worth.	111,423	6	152	46	.41	2	.02	4.3
Houston.	144,340	5	45	43	.30	1	.01	2.3
San Antonio.	171,387	7	30	13	.08	2	.01	15.4
Utah:								
Salt Lake City.	121,595	8	252	738	6.07	1	.01	.1
Virginia:								
Norfolk.	121,260	3	76	19	.16	0	-----	-----
Richmond.	175,686	7	5	15	.09	0	-----	-----
Washington:								
Seattle.	1,315,312	8	93	565	1.79	1	.00	.2
Spokane.	104,442	6	366	955	9.14	1	.01	.1
Wisconsin:								
Milwaukee.	468,386	7	332	517	1.10	0	-----	-----
56 cities.	26,660,890	-----	6,863	17,203	.65	279	.01	1.6

## TUBERCULOSIS (ALL FORMS).

City.	Estimated population July 1, 1921.	Cases reported, 1921.	Cases per 1,000 inhabitants.	Deaths registered, 1921.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:						
Birmingham.	186,133	-----	-----	251	1.35	-----
California:						
Los Angeles.	614,160	3,162	5.15	1,033	1.68	3.1
Oakland.	226,472	165	.73	148	.65	1.1
San Francisco.	520,546	-----	-----	638	1.23	-----
Colorado:						
Denver.	263,152	-----	-----	575	2.19	-----
Connecticut:						
Bridgeport.	143,555	227	1.58	140	.98	1.0
New Haven.	167,007	405	2.43	124	.74	3.3
Delaware:						
Wilmington.	113,408	-----	-----	110	.97	-----
District of Columbia:						
Washington.	1,437,571	1,267	2.90	539	1.23	2.4
Georgia:						
Atlanta.	207,473	-----	-----	242	1.17	-----
Illinois:						
Chicago.	2,780,655	10,593	3.81	2,330	.84	4.5
Indiana:						
Indianapolis.	325,632	-----	-----	398	1.22	-----
Iowa:						
Des Moines.	132,663	-----	-----	77	.58	-----
Kansas:						
Kansas City.	103,884	208	2.00	105	1.01	2.0
Kentucky:						
Louisville.	236,083	409	1.99	260	1.10	1.8
Louisiana:						
New Orleans.	304,657	1,102	2.70	746	1.89	1.5

<sup>1</sup> Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## TUBERCULOSIS (ALL FORMS)—Continued.

City.	Estimated population July 1, 1921.	Cases reported, 1921.	Cases per 1,000 inhabitants.	Deaths registered, 1921.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Maryland:						
Baltimore.....	750,564	1,406	1.87	1,050	1.40	1.3
Massachusetts:						
Boston.....	757,634	2,543	3.36	877	1.16	2.9
Cambridge.....	110,444	243	2.20	136	1.23	1.8
Fall River.....	120,668	249	2.06	117	.97	2.1
Lowell.....	113,757	248	2.18	85	.75	2.9
New Bedford.....	125,012	339	2.71	152	1.22	2.2
Springfield.....	135,877	196	1.44	102	.75	1.9
Worcester.....	184,972	271	1.47	175	.95	1.5
Michigan:						
Detroit.....	1,070,450	2,255	2.11	888	.83	2.5
Grand Rapids.....	141,197	271	1.92	85	.60	3.2
Minnesota:						
Minneapolis.....	302,815	1,433	3.65	330	.86	4.2
St. Paul.....	237,781	579	2.44	238	1.00	2.4
Missouri:						
Kansas City.....	336,157			334	.99	...
St. Louis.....	786,164	1,773	2.23	815	1.04	2.2
Nebraska:						
Omaha.....	197,066			147	.75	...
New Jersey:						
Camden.....	119,672	132	1.10	90	.75	1.5
Jersey City.....	302,788	533	1.76	318	1.05	1.7
Newark.....	424,885	1,247	2.93	446	1.05	2.8
Paterson.....	137,463	279	2.03	112	.81	2.5
Trenton.....	122,760	255	2.16	164	1.34	1.6
New York:						
Albany.....	115,071	237	2.32	139	1.21	1.9
Buffalo.....	519,608	1,055	2.09	543	1.05	2.0
New York.....	5,751,867	13,457	2.34	5,922	1.03	2.3
Rochester.....	305,229	583	1.91	102	.33	5.7
Syracuse.....	177,265			124	.70	...
Yonkers.....	103,324	256	2.48	107	1.04	2.4
Ohio:						
Akron.....	1,208,435	425	2.04	84	.40	5.1
Cincinnati.....	403,418	1,137	2.82	588	1.46	1.9
Cleveland.....	831,138	1,866	2.25	803	.97	2.3
Columbus.....	245,358			231	.94	...
Dayton.....	1,152,559			127	.83	...
Toledo.....	253,606			316	4.25	...
Youngstown.....	139,432	123	.88	62	.59	1.5
Oregon:						
Portland.....	264,550	361	1.36	173	.65	2.1
Pennsylvania:						
Philadelphia.....	1,856,212	3,632	1.95	2,167	1.16	1.7
Pittsburgh.....	602,452			603	1.00	...
Reading.....	105,593			71	.67	...
Scranton.....	139,097			98	.71	...
Rhode Island:						
Providence.....	239,645			236	.98	...
Tennessee:						
Memphis.....	165,656	713	4.30	261	1.53	2.7
Nashville.....	122,036			154	1.51	...
Texas:						
Dallas.....	165,282	240	1.45	140	.85	1.7
Houston.....	144,340	194	1.34	143	.99	1.4
San Antonio.....	171,387			421	2.46	...
Utah:						
Salt Lake City.....	121,595			66	.54	...
Virginia:						
Norfolk.....	121,260	193	1.59	145	1.20	1.3
Richmond.....	175,696			255	1.45	...
Washington:						
Seattle.....	1,315,312	458	1.45	210	.69	2.1
Spokane.....	104,442	127	1.23	67	.64	1.9
Wisconsin:						
Milwaukee.....	468,386			308	.66	...
66 cities.....	27,921,027			29,112	1.04	...

<sup>1</sup> Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## TUBERCULOSIS (PULMONARY).

City.	Estimated population July 1, 1921.	Cases reported, 1921.	Cases per 1,000 inhabitants.	Deaths registered, 1921.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Alabama:						
Birmingham	186,133	264	1.42	211	1.13	1.3
California:						
Los Angeles	614,160			870	1.42	
Oakland	226,472	162	.72	121	.53	1.3
San Francisco	520,546	1,347	2.59	530	1.00	2.6
Colorado:						
Denver	263,152			494	1.88	
Connecticut:						
Bridgeport	1 143,555	218	1.52	128	.89	1.7
Hartford	144,080	208	1.44	61	.42	3.4
New Haven	167,007	361	2.16	87	.52	4.1
Delaware:						
Wilmington	113,408			90	.79	
District of Columbia:						
Washington	1 437,571	1,244	2.84	463	1.06	2.7
Illinois:						
Chicago	2,780,655			1,935	.70	
Indiana:						
Indianapolis	325,632	614	1.89	319	.98	1.9
Iowa:						
Des Moines	132,663			64	.48	
Louisiana:						
New Orleans	394,657			650	1.65	
Maryland:						
Baltimore	750,804	1,390	1.85	889	1.18	1.6
Massachusetts:						
Boston	757,634	2,177	2.87	700	1.00	2.9
Cambridge	110,444	204	1.85	120	1.09	1.7
Fall River	120,668	213	1.77	93	.77	2.3
Lowell	113,757	219	1.93	62	.55	3.5
New Bedford	125,012	208	2.38	123	.98	2.4
Springfield	135,377	169	1.24	73	.54	2.3
Worcester	184,972	223	1.21	132	.71	1.7
Michigan:						
Detroit	1,070,450	2,079	1.94	736	.69	2.8
Minnesota:						
Minneapolis	392,815			289	.74	
St. Paul	237,781			191	.80	
Missouri:						
St. Louis	786,164			723	.92	
Nebraska:						
Omaha	197,066			123	.62	
New Jersey:						
Jersey City	302,788			274	.90	
Newark	424,885			392	.92	
Paterson	137,463			104	.76	
Trenton	122,760	244	1.99	151	1.23	1.6
New York:						
Albany	115,071			113	.98	
Buffalo	519,608	955	1.84	466	.90	2.0
New York	5,751,867	12,966	2.25	5,143	.89	2.5
Syracuse	177,265			82	.46	
Yonkers	103,324	241	2.33	93	.90	2.6
Ohio:						
Akron	1 208,435	356	1.71	71	.34	5.0
Cincinnati	403,418	1,070	2.65	518	1.28	2.1
Cleveland	831,138	1,792	2.16	650	.78	2.8
Columbus	245,358			183	.75	
Dayton	1 152,559			114	.75	
Toledo	253,696			280	1.10	
Youngstown	139,432	122	.87	60	.43	2.0
Oregon:						
Portland	264,859			116	.44	
Pennsylvania:						
Philadelphia	1,966,212			1,912	1.02	
Pittsburgh	602,452	920	1.53	481	.80	1.9
Reading	105,593	96	.91	70	.66	1.4
Scranton	139,007			66	.47	
Rhode Island:						
Providence	239,645			179	.75	
Tennessee:						
Memphis	165,656	638	3.85	219	1.32	2.9
Nashville	122,036			142	1.16	

<sup>1</sup> Enumerated population Jan. 1, 1920.

Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.  
TUBERCULOSIS (PULMONARY)—Continued.

City.	Estimated population July 1, 1921.	Cases reported, 1921.	Cases per 1,000 inhabitants.	Deaths registered, 1921.	Deaths per 1,000 inhabitants.	Cases reported for each death registered.
Texas:						
Dallas.....	165,282	238	1.44	122	0.74	2.0
Houston.....	144,340	.....	.....	120	.83	.....
Utah:						
Salt Lake City.....	121,595	.....	.....	56	.46	.....
Virginia:						
Richmond.....	175,086	648	3.60	211	1.20	3.1
Washington:						
Seattle.....	1,315,312	385	1.22	145	.46	2.2
Spokane.....	104,442	110	1.05	50	.48	2.7
Wisconsin:						
Milwaukee.....	468,386	835	1.78	246	.53	3.4
59 cities.....	26,322,765	.....	.....	23,156	.88	.....

## TYPHOID FEVER.

City.	Estimated population July 1, 1921.	Median.		1921.			
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Fatalities per 100 cases.
Alabama:							
Birmingham.....	186,133	8	364	206	1.11	32	0.17
California:							
Los Angeles.....	614,160	8	193	76	.12	16	.03
Oakland.....	226,472	7	73	60	.26	2	.01
San Francisco.....	520,549	8	188	139	.27	23	.04
Colorado:							
Denver.....	203,152	8	130	75	.29	12	.05
Connecticut:							
Bridgeport.....	1,143,555	8	30	12	.08	4	.03
Hartford.....	144,080	7	51	88	.61	10	.07
New Haven.....	167,007	8	72	97	.58	8	.05
Delaware:							
Wilmington.....	113,408	7	122	33	.29	5	.04
District of Columbia:							
Washington.....	1,457,571	8	323	195	.45	29	.07
Georgia:							
Atlanta.....	207,473	5	98	94	.45	24	.12
Illinois:							
Chicago.....	2,790,655	8	631	232	.08	30	.01
Indiana:							
Indianapolis.....	325,632	8	172	89	.27	23	.07
Kansas:							
Kansas City.....	103,884	4	57	47	.45	5	.05
Kentucky:							
Louisville.....	230,083	8	136	119	.50	13	.06
Louisiana:							
New Orleans.....	294,657	8	230	151	.38	37	.06
Maryland:							
Baltimore.....	750,864	8	643	260	.36	41	.05
Massachusetts:							
Boston.....	757,634	8	193	142	.19	24	.03
Cambridge.....	110,444	5	23	12	.11	0	..
Fall River.....	120,668	8	149	77	.64	3	.02
Lowell.....	113,757	8	49	27	.24	0	.05
New Bedford.....	125,012	7	64	21	.17	3	.02
Springfield.....	135,877	8	42	11	.08	6	.04
Worcester.....	184,972	7	49	35	.19	6	.03
Michigan:							
Detroit.....	1,070,450	7	417	302	.37	55	.05
Grand Rapids.....	141,197	8	106	31	.22	6	.04
Minnesota:							
Minneapolis.....	302,815	6	160	145	.37	3	.01
St. Paul.....	237,731	8	78	121	.51	17	.07

<sup>1</sup> Enumerated population Jan. 1, 1920.

## Reported Prevalence for the Year 1921—Medians for Previous Years—Continued.

## TYPHOID FEVER—Continued.

City.	Estimated population July 1, 1921.	Median.		1921			
		Number of years.	Cases reported.	Cases reported.	Cases per 1,000 inhabitants.	Deaths registered.	Fatalities per 100 cases.
Missouri:							
Kansas City	336,157	8	87	107	0.32	38	0.11
St. Louis	786,164	8	411	175	.22	30	.04
Nebraska:							
Omaha	197,066	6	36	39	.20	8	.04
New Jersey:							
Camden	119,672	7	43	27	.23	8	.07
Jersey City	302,788	8	50	58	.19	11	.04
Newark	424,885	7	111	74	.17	12	.03
Paterson	137,463	8	35	24	.17	8	.06
Trenton	122,700	7	42	161	1.31	11	.00
New York:							
Albany	115,071	8	86	27	.23	5	.04
Buffalo	619,608	8	221	107	.21	22	.04
New York	5,751,887	8	1,329	899	.16	123	.02
Rochester	305,229	7	50	59	.19	10	.03
Syracuse	177,265	8	60	136	.77	7	.04
Yonkers	103,324	7	16	9	.09	3	.03
Ohio:							
Akron	1,208,435	7	84	51	.24	12	.06
Cincinnati	403,478	8	119	67	.17	14	.03
Cleveland	831,138	8	207	168	.20	29	.03
Columbus	245,358	8	135	82	.33	10	.04
Dayton	1,152,559	8	80	47	.31	8	.05
Toledo	253,695	8	213	182	.72	22	.09
Youngstown	139,432	5	85	85	.61	17	.12
Oregon:							
Portland	264,859	5	47	34	.13	8	.03
Pennsylvania:							
Philadelphia	1,865,212	8	682	394	.21	42	.02
Pittsburgh	602,452	8	279	250	.41	26	.04
Reading	105,593	7	60	103	.98	14	.13
Scranton	139,007	7	22	13	.09	9	.06
Rhode Island:							
Providence	239,645	8	132	38	.16	6	.03
Tennessee:							
Memphis	165,656	4	183	115	.69	15	.09
Nashville	122,036	8	280	176	1.44	25	.20
Texas:							
Dallas	165,282	6	120	93	.56	21	.13
Fort Worth	111,423	4	66	28	.25	12	.11
Houston	144,340	4	71	47	.33	17	.12
San Antonio	171,387	7	84	69	.40	26	.15
Utah:							
Salt Lake City	121,595	8	110	43	.35	7	.06
Virginia:							
Norfolk	121,260	3	43	37	.31	6	.05
Richmond	175,686	7	105	72	.41	10	.06
Washington:							
Seattle	1,315,312	8	61	100	.32	7	.02
Spokane	101,442	6	45	26	.25	5	.05
Wisconsin:							
Milwaukee	408,386	7	103	36	.08	9	.02
67 cities	28,043,867	.....	11,034	7,254	.26	1,115	.04

## TYPHUS FEVER.

City.	Cases reported, 1921.	Deaths registered, 1921.	City.	Cases reported, 1921.	Deaths registered, 1921.
California:			New York:		
Los Angeles	5	1	New York	38	4
Maryland:			Ohio:		
Baltimore	3	1	Cleveland	1	0
Massachusetts:			Youngstown	1	0
Boston	1	0	7 cities	30	6
New Jersey:					
Paterson	1	0			

1 Enumerated population January 1, 1920.

## DEATHS DURING WEEK ENDED MAY 27, 1922.

Summary of information received by telegraph from industrial insurance companies for week ended May 27, 1922, and corresponding week, 1921. (From the Weekly Health Index, May 31, 1922, issued by the Bureau of the Census, Department of Commerce.)

	Week ended May 27, 1922.	Corresponding week, 1921.
Policies in force.....	49,911,994	46,990,382
Number of death claims.....	9,088	7,671
Death claims per 1,000 policies in force, annual rate.....	9.5	8.5

Deaths from all causes in certain large cities of the United States during the week ended May 27, 1922, infant mortality, annual death rate, and comparison with corresponding week of 1921. (From the Weekly Health Index, May 31, 1922, issued by the Bureau of the Census, Department of Commerce.)

City.	Estimated population July 1, 1922.	Week ended May 27, 1922.		Annual death rate per 1,000, corre- sponding week, 1921.	Deaths under 1 year.		Infant mort- ality rate, week ended May 27, 1922. <sup>2</sup>
		Total deaths.	Death rate. <sup>1</sup>		Week ended May 27, 1922.	Corre- sponding week, 1921.	
Total.....	26,861,831	6,197	12.0	12.4	739	846	.....
Akron, Ohio.....	208,435	25	6.3	3.6	5	5	64
Albany, N. Y.....	116,223	45	20.2 <sup>3</sup>	19.0	7	3	157
Atlanta, Ga.....	220,047	59	14.0	13.1	14	9	.....
Baltimore, Md.....	762,222	204	14.0	13.3	15	21	42
Birmingham, Ala.....	191,017	45	12.3	16.5	5	6	.....
Boston, Mass.....	764,017	173	11.8	14.7	18	30	48
Buffalo, N. Y.....	143,555	36	13.1	12.9	4	5	50
Bridgeport, Conn.....	528,163	125	12.3	12.1	19	23	75
Cambridge, Mass.....	110,944	19	8.9	18.4	4	6	73
Camden, N. J.....	121,915	29	12.4	10.5	6	5	92
Chicago, Ill.....	2,833,288	577	10.6	12.8	67	116	.....
Cincinnati, Ohio.....	404,865	120	15.5	14.0	9	8	60
Cleveland, Ohio.....	854,003	163	10.0	10.4	30	24	77
Columbus, Ohio.....	253,455	62	12.8	14.5	4	7	42
Dallas, Tex.....	171,974	40	12.1	14.2	5	8	.....
Dayton, Ohio.....	161,824	32	10.3	9.9	5	6	85
Denver, Colo.....	267,591	69	13.4	10.2	6	11	.....
Fall River, Mass.....	120,790	28	12.1	22.5	9	1	126
Fort Worth, Tex.....	114,717	24	10.9	.....	2	.....	.....
Grand Rapids, Mich.....	143,572	29	10.5	13.7	0	5	0
Houston, Tex.....	150,087	34	11.8	13.0	8	1	.....
Indianapolis, Ind.....	333,257	80	12.5	13.0	8	4	61
Jersey City, N. J.....	305,911	60	10.2	12.4	10	12	64
Kansas City, Kans.....	105,688	27	13.3	14.6	3	6	69
Kansas City, Mo.....	343,988	96	14.6	12.4	12	7	.....
Los Angeles, Calif.....	634,866	163	13.4	13.2	17	15	71
Louisville, Ky.....	236,877	75	16.5	17.4	9	8	97
Lowell, Mass.....	114,423	35	16.0	9.6	4	4	67
Memphis, Tenn.....	167,862	65	20.2	22.7	8	7	.....
Milwaukee, Wis.....	476,003	84	9.2	11.9	14	21	68
Minneapolis, Minn.....	400,970	73	9.5	8.9	9	8	49
Nashville, Tenn.....	122,832	24	10.2	10.3	4	3	.....
New Bedford, Mass.....	127,542	20	8.2	11.3	4	3	50
New Haven, Conn.....	169,987	42	12.9	11.9	10	8	122
New Orleans, La.....	399,616	131	17.1	17.7	13	25	.....
New York, N. Y.....	5,839,746	1,384	12.4	11.0	162	161	63
Newark, N. J.....	431,792	98	11.8	10.4	11	15	49
Norfolk, Va.....	124,915	23	9.6	9.9	3	9	53
Oakland, Calif.....	233,279	45	10.1	10.4	3	2	38
Omaha, Nebr.....	200,739	41	10.6	15.3	3	7	32
Paterson, N. J.....	138,321	28	10.5	12.1	4	4	62
Philadelphia, Pa.....	1,894,500	442	12.2	11.1	42	57	50
Pittsburgh, Pa.....	607,902	149	12.8	14.5	24	27	77
Portland, Oreg.....	269,240	57	11.0	14.0	6	6	59
Providence, R. I.....	241,011	59	12.8	15.9	11	19	87
Richmond, Va.....	178,365	43	12.6	16.6	4	9	49
Rochester, N. Y.....	311,548	64	10.7	8.9	8	10	63

<sup>1</sup> Annual rate per 1,000 population.

<sup>2</sup> Deaths under 1 year per 1,000 births—an annual rate based on deaths under 1 year for the week and estimated births for 1921. Cities left blank are not in the registration area for births.

<sup>3</sup> Enumerated population Jan. 1, 1920.

June 9, 1922.

*Deaths from all causes in certain large cities of the United States during the week ended May 27, 1922, infant mortality, annual death rate, and comparison with corresponding week of 1921. (From the Weekly Health Index, May 31, 1922, issued by the Bureau of the Census, Department of Commerce.)—Continued.*

City.	Estimated population July 1, 1922	Week ended May 27, 1922.		Annual death rate per 1,000, corresponding week, 1921.	Deaths under 1 year.		Infant mortality rate, week ended May 27, 1922.
		Total deaths.	Death rate.		Week ended May 27, 1922.	Corresponding week, 1921.	
St. Louis, Mo.	705,008	175	11.5	13.8	17	18	...
St. Paul, Minn.	239,836	45	9.8	11.2	7	2	66
Salt Lake City, Utah	123,918	26	10.9	16.3	1	9	15
San Francisco, Calif.	529,792	130	12.8	14.4	8	5	46
Seattle, Wash.	315,312	60	9.9	8.0	6	6	51
Spokane, Wash.	104,445	32	16.0	7.0	5	2	107
Springfield, Mass.	140,052	19	7.1	12.7	2	5	30
Syracuse, N. Y.	181,012	35	10.1	11.5	4	8	45
Toledo, Ohio	260,717	46	9.2	13.8	5	8	49
Trenton, N. J.	126,075	40	16.7	17.4	4	3	61
Washington, D. C.	437,571	119	14.2	12.7	11	7	63
Wilmington, Del.	115,568	25	11.3	10.6	5	6	97
Worcester, Mass.	188,449	53	14.7	13.8	8	6	87
Yonkers, N. Y.	103,422	17	8.4	11.6	2	2	42
Youngstown, Ohio	144,970	29	10.4	10.3	5	2	66

<sup>a</sup> Enumerated population Jan. 1, 1920.

## PREVALENCE OF DISEASE.

*No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.*

### UNITED STATES.

#### CURRENT STATE SUMMARIES.

##### Telegraphic Reports for Week Ended June 3, 1922.

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers.

ALABAMA.	Cases.	COLORADO.	Cases.
Chicken pox.....	11	Chicken pox.....	1
Diphtheria.....	7	Diphtheria.....	4
Hookworm disease.....	34	Measles.....	2
Malaria.....	25	Mumps.....	3
Measles.....	4	Pneumonia.....	2
Pellagra.....	12	Scarlet fever.....	8
Poliomyelitis.....	4	Smallpox.....	11
Scarlet fever.....	8	Tuberculosis.....	5
Smallpox.....	13		
Tuberculosis.....	27		
Typhoid fever.....	16		
Whooping cough.....	11		
ARKANSAS.			
Chicken pox.....	7	Botulism.....	1
Diphtheria.....	1	Chicken pox.....	31
Influenza.....	6	Diphtheria:	
Malaria.....	73	Bridgeport.....	8
Measles.....	2	New Haven.....	8
Pellagra.....	7	Scattering.....	23
Smallpox.....	5	German measles.....	19
Trachoma.....	1	Measles:	
Tuberculosis.....	10	Bridgeport.....	14
Typhoid fever.....	20	East Windsor.....	11
Whooping cough.....	15	Greenwich.....	11
CALIFORNIA.			
Cerebrospinal meningitis:		Hartford.....	35
San Francisco.....	1	New Haven.....	123
Diphtheria.....	106	Stamford.....	22
Influenza.....	13	Suffield.....	10
Lethargic encephalitis:		West Haven.....	119
San Diego.....	1	Scattering.....	60
San Francisco.....	1	Mumps.....	14
Measles.....	41	Pneumonia (lobar).....	12
Poliomyelitis:		Scarlet fever:	
San Diego.....	1	Bridgeport.....	8
San Francisco.....	1	Scattering.....	34
Scarflet fever.....	68	Smallpox.....	8
Smallpox.....	18	Tuberculosis (all forms).....	27
Typhoid fever.....	12	Typhoid fever.....	3
		Whooping cough.....	15

June 9, 1922.

## FLORIDA.

	Cases.
Cerebrospinal meningitis	1
Diphtheria	7
Influenza	17
Malaria	27
Paratyphoid fever	1
Pneumonia	1
Smallpox	5
Typhoid fever	10

## GEORGIA.

Cerebrospinal meningitis	2
Chicken pox	25
Diphtheria	8
Dysentery (amebic)	4
Dysentery (bacillary)	16
Hookworm disease	17
Influenza	5
Malaria	36
Measles	1
Mumps	1
Pellagra	1
Pneumonia	2
Pollomyelitis	1
Scarlet fever	8
Septic sore throat	2
Smallpox	18
Tuberculosis (pulmonary)	9
Typhoid fever	15
Whooping cough	25

## INDIANA.

Cerebrospinal meningitis:	
Jefferson County	1
Diphtheria	37
Scarlet fever	37
Smallpox	54
Typhoid fever	7

## IOWA.

Diphtheria	21
Scarlet fever	29
Smallpox	8

## KANSAS.

Cerebrospinal meningitis	1
Chicken pox	61
Diphtheria	27
Influenza	4
Malaria	1
Measles	7
Mumps	14
Pneumonia	5
Scarlet fever	38
Smallpox	7
Tuberculosis	13
Typhoid fever	87
Whooping cough	7

## LOUISIANA.

Diphtheria	14
Influenza	4
Malaria	31
Measles	14
Pellagra	8
Scarlet fever	2
Smallpox	10
Typhoid fever	10

1 Week ended Friday.

MARYLAND.<sup>1</sup>

	Cases.
Chicken pox	43
Diphtheria	18
German measles	4
Influenza	6
Lethargic encephalitis	4
Malaria	3
Measles	287
Mumps	146
Ophthalmia neonatorum	1
Paratyphoid fever	2
Pneumonia (all forms)	31
Poliomyelitis	1
Scarlet fever	22
Septic sore throat	1
Tuberculosis	89
Typhoid fever	4
Whooping cough	22

## MASSACHUSETTS.

Cerebrospinal meningitis	1
Chicken pox	122
Conjunctivitis (suppurative)	10
Diphtheria	112
German measles	9
Influenza	4
Lethargic encephalitis	1
Measles	848
Mumps	100
Ophthalmia neonatorum	9
Pneumonia (lobar)	65
Scarlet fever	128
Septic sore throat	1
Trachoma	2
Trichinosis	1
Tuberculosis (all forms)	151
Typhoid fever	9
Whooping cough	69

## MINNESOTA.

Chicken pox	6
Diphtheria	41
Measles	172
Scarlet fever	78
Smallpox	27
Tuberculosis	54
Typhoid fever	9

## MISSISSIPPI.

Diphtheria	4
Smallpox	12
Typhoid fever	23

## MISSOURI.

Chicken pox	42
Diphtheria	32
Epidemic sore throat	6
Measles	37
Mumps	6
Ophthalmia neonatorum	1
Pneumonia	9
Scarlet fever	15
Smallpox	5
Trachoma	7
Tuberculosis	59
Typhoid fever	3
Whooping cough	8

	MONTANA.	Cases.	NEW YORK—continued.	Cases.
Diphtheria.....	7	Smallpox:	Niagara Falls.....	15
Rocky Mountain spotted or tick fever:			Typhoid fever.....	17
Big Flat.....	1		Whooping cough.....	257
Billings.....	1			
Butte Creek.....	1		NORTH CAROLINA.	
Missoula (R. F. D.).....	1		Cerebrospinal meningitis.....	2
Myers.....	1		Chicken pox.....	54
Roundup.....	1		Diphtheria.....	18
Scarlet fever.....	2		German measles.....	2
Smallpox.....	14		Measles.....	63
			Scarlet fever.....	19
			Smallpox.....	22
NEBRASKA.			Typhoid fever.....	40
Chicken pox.....	9		Whooping cough.....	186
Diphtheria:				
Omaha.....	9		OREGON.	
Scattering.....	4		Chicken pox.....	10
Measles:			Diphtheria.....	9
Lincoln.....	39		Influenza.....	11
Omaha.....	18		Mumps.....	1
Schuyler.....	11		Pneumonia.....	15
Scattering.....	20		Scarlet fever.....	9
Mumps.....	22		Septic sore throat.....	2
Pneumonia.....	3		Smallpox.....	13
Poliomyelitis—McCook.....	1		Tuberculosis.....	6
Scarlet fever.....	17		Typhoid fever.....	1
Smallpox.....	1		Whooping cough.....	4
Tuberculosis.....	14			
Typhoid fever.....	1		SOUTH DAKOTA.	
Whooping cough.....	5		Chicken pox.....	13
			Diphtheria.....	5
NEW JERSEY.			Measles.....	22
Cerebrospinal meningitis.....	1		Pneumonia.....	2
Chicken pox.....	137		Scarlet fever.....	15
Diphtheria.....	87		Smallpox.....	15
Influenza.....	4		Tuberculosis.....	2
Malaria.....	1		Typhoid fever.....	1
Measles.....	1,083			
Pneumonia.....	76		TEXAS.	
Poliomyelitis.....	1		Diphtheria.....	15
Scarlet fever.....	183		Influenza.....	11
Trachoma.....	1		Measles.....	63
Typhoid fever.....	6		Pneumonia.....	15
Whooping cough.....	117		Scarlet fever.....	9
			Smallpox.....	33
NEW MEXICO.			Typhoid fever.....	4
Chicken pox.....	1			
Conjunctivitis.....	5		VERMONT.	
Diphtheria.....	31		Chicken pox.....	26
Malaria.....	2		Diphtheria.....	2
Mumps.....	2		Measles.....	25
Pneumonia.....	13		Mumps.....	16
Scarlet fever.....	2		Scarlet fever.....	17
Smallpox.....	29		Whooping cough.....	15
Tuberculosis.....	2			
Typhoid fever.....	2		WASHINGTON.	
Whooping cough.....	2		Cerebrospinal meningitis—Tacoma.....	1
			Chicken pox.....	29
NEW YORK.			Diphtheria.....	9
(Exclusive of New York City.)			Lethargic encephalitis:	
Cerebrospinal meningitis.....	2		Buckley.....	1
Diphtheria.....	101		Centralia.....	1
Influenza.....	35		Measles:	
Lethargic encephalitis.....	1		Wenatchee.....	14
Measles.....	943		Scattering.....	6
Pneumonia.....	193			
Scarlet fever.....	170			

\*Deaths.

WASHINGTON—continued.	Cases.	WISCONSIN—continued.	Cases.
Mumps.....	39	Scattering—Continued.	
Pneumonia.....	1	Measles.....	34
Scarlet fever.....	16	Penumonia.....	6
Smallpox.....	17	Scarlet fever.....	67
Tuberculosis.....	33	Smallpox.....	17
Typhoid fever.....	6	Tuberculosis.....	27
Whooping cough.....	52	Typhoid fever.....	19
		Whooping cough.....	83
WEST VIRGINIA.		WYOMING.	
Diphtheria.....	9	Chicken pox.....	21
Scarlet fever.....	5	Diphtheria.....	2
Typhoid fever.....	5	Influenza.....	11
		Measles.....	2
WISCONSIN.		Mumps.....	6
Milwaukee:		Pneumonia.....	21
Cerebrospinal meningitis.....	1	Rocky Mountain spotted or tick fever:	
Chicken pox.....	41	Big Horn County.....	2
Diphtheria.....	2	Carbon County.....	1
German measles.....	1	Fremont County.....	2
Measles.....	14	Lincoln County.....	1
Pneumonia.....	1	Natrona County.....	1
Scarlet fever.....	7	Park County.....	1
Smallpox.....	7	Sheridan County.....	1
Tuberculosis.....	10	Uinta County.....	1
Whooping cough.....	81	Scarlet fever.....	2
Scattering:		Smallpox.....	11
Cerebrospinal meningitis.....	2	Typhoid fever.....	2
Chicken pox.....	84	Whooping cough.....	13
Diphtheria.....	24		
German measles.....	28		
Influenza.....	8		

## Delayed Reports for Week Ended May 27, 1922.

CALIFORNIA.	Cases.	KENTUCKY.	Cases.
Cerebrospinal meningitis:			
Los Angeles.....	1	Actinomycosis—Shelby County.....	1
San Francisco.....	1	Cerebrospinal meningitis—Jefferson County.....	1
Diphtheria.....	120	Chicken pox.....	1
Influenza.....	22	Diphtheria.....	13
Lethargic encephalitis:		Influenza.....	1
Berkeley.....	1	Malaria.....	1
Los Angeles.....	2	Measles:	
San Francisco.....	1	Fayette County.....	10
Measles.....	45	Pendleton County.....	13
Scarlet fever.....	113	Scattering.....	11
Smallpox.....	30	Pneumonia.....	6
Typhoid fever.....	9	Scarlet fever.....	4
		Smallpox.....	6
DELAWARE.		Trachoma.....	1
Cerebrospinal meningitis—Greenwood.....	1	Tuberculosis:	
Chicken pox.....	9	Jefferson County.....	23
Scarlet fever:		Scattering.....	3
Wilmington.....	11	Typhoid fever.....	10
Scattering.....	2	Whooping cough.....	3
Tuberculosis.....	11		
Typhoid fever.....	4	MAINE.	
		Cerebrospinal meningitis.....	1
DISTRICT OF COLUMBIA.		Chicken pox.....	15
Chicken pox.....	30	Diphtheria.....	3
Diphtheria.....	9	Influenza.....	1
Measles.....	33	Lethargic encephalitis.....	1
Scarlet fever.....	4	Measles.....	13
Smallpox.....	8	Pneumonia.....	7
Tuberculosis.....	35	Scarlet fever.....	35
Typhoid fever.....	21	Tuberculosis.....	12
Whooping cough.....	11	Typhoid fever.....	2
		Whooping cough.....	13

MINNESOTA.	CASES.	MISSOURI—continued.	CASES.
Cerebrospinal meningitis.....	1	Pneumonia.....	14
Chicken pox.....	13	Scarlet fever.....	13
Diphtheria.....	68	Smallpox.....	6
Influenza.....	2	Tuberculosis.....	8
Measles.....	116	Typhoid fever.....	5
Pneumonia.....	5	Whooping cough.....	17
Scarlet fever.....	90		
Smallpox.....	22	WYOMING.	
Tuberculosis.....	90	Chicken pox.....	1
Typhoid fever.....	6	Influenza.....	4
Whooping cough.....	3	Measles.....	2
		Mumps.....	1
		Pneumonia.....	1
		Rocky Mountain spotted or tick fever:	
Cerebrospinal meningitis.....	2	Carbon.....	1
Chicken pox.....	17	Fremont.....	1
Diphtheria.....	11	Natrona County.....	1
Epidemic sore throat.....	2	Trachoma.....	1
Influenza.....	2	Tuberculosis.....	4
Measles.....	33	Typhoid fever.....	4
Mumps.....	7	Whooping cough.....	4

## SUMMARY OF CASES REPORTED MONTHLY BY STATES.

The following summary of monthly State reports is published weekly and covers only those States from which reports are received during the current week:

State.	Cerebrospinal meningitis.	Diphtheria.	Influenza.	Malaria.	Measles.	Pellagra.	Polyomyelitis.	Scarlet fever.	Smallpox.	Typhoid fever.
1922.										
Colorado (April).....	2	130	62		31			102	76	7
Montana (March).....		48	1,410		7			81	83	
Montana (April).....		55	14		5			28	53	5
Ohio (April).....	9	571	181		3,268	2	727	300	45	
Oklahoma (April).....		14	72	1	5	1		10	175	3
Pennsylvania (March).....	8	1,280			2,360			2,125	7	81
Vermont (April).....		22	14		68			146		2
Wyoming (April).....		6	118		4			10	20	6

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922.

## ANTHRAX.

City.	CASES.	DEATHS.
Connecticut: Meriden.....		1

June 9, 1922.

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## CEREBROSPINAL MENINGITIS.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for previ- ous years.	Week ended May 20, 1922.		City.	Median for previ- ous years.	Week ended May 20, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Michigan:			
Los Angeles.....	1	1	1	Hamtramck.....	2	1	1
Illinois:				Missouri:			
Chicago.....	5	1	2	Kansas City.....	1	2	1
Oak Park.....	1	1	1	Springfield.....	0	.....	1
Rockford.....	.....	.....	1	New York:			
Indiana:				Buffalo.....	0	.....	
Fort Wayne.....	0	1	.....	New York.....	8	5	3
Iowa:				Poughkeepsie.....	0	.....	1
Sioux City.....	0	1	.....	Yonkers.....	0	1	.....
Maryland:				Ohio:			
Cumberland.....	0	1	.....	Cincinnati.....	0	1	1
Massachusetts:				Wisconsin:			
Boston.....	1	1	1	Milwaukee.....	2	3	.....
Lowell.....	0	1	.....				
Springfield.....	0	1	1				

## Diphtheria.

See p. 1433; also Telegraphic weekly reports from States, p. 1422, and Monthly summaries by States, p. 1426.

## INFLUENZA.

City.	Cases.		City.	Cases.		Deaths, week ended May 21, 1922.
	Week ended May 21, 1921.	Week ended May 20, 1922.		Week ended May 21, 1921.	Week ended May 20, 1922.	
California:			Michigan:			
Los Angeles.....	10	1	Detroit.....	3	.....	
Sacramento.....	3	.....	Muskegon.....	.....	1	2
San Diego.....	2	2	Minnesota:			
San Francisco.....	10	.....	Minneapolis.....	.....	.....	1
Colorado:			Missouri:			
Denver.....	.....	1	Independence.....	.....	.....	1
Connecticut:			Kansas City.....	1	1	.....
Bridgeport.....	.....	1	Nebraska:			
Hartford.....	1	.....	Lincoln.....	.....	.....	1
Meriden.....	1	.....	New Jersey:			
New Haven.....	.....	1	East Orange.....	.....	1	1
Florida:			Newark.....	.....	7	.....
Tampa.....	1	.....	Trenton.....	2	.....	
Georgia:			New York:			
Atlanta.....	.....	1	Albany.....	2	1	.....
Illinois:			Auburn.....	.....	1	.....
Chicago.....	14	10	New York.....	17	19	5
Louisiana:			Rochester.....	.....	.....	1
New Orleans.....	1	.....	Troy.....	.....	1	.....
Maryland:			Yonkers.....	1	.....	
Baltimore.....	2	1	Ohio:			
Massachusetts:			Cincinnati.....	.....	.....	1
Boston.....	2	2	Cleveland.....	.....	1	.....
Chelsea.....	1	1	Toledo.....	.....	1	.....
Clinton.....	1	1	Oregon:			
Everett.....	1	1	Portland.....	.....	.....	1
Haverhill.....	1	2	Pennsylvania:			
Lynn.....	1	.....	Philadelphia.....	2	1	.....
Saugus.....	3	.....	Texas:			
Somerville.....	1	.....	Dallas.....	.....	.....	1
			Wisconsin:			
			Milwaukee.....	.....	1	.....

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## LEPROSY.

City.	Cases.	Deaths.
Florida: Tampa.....	1	.....

## LETHARGIC ENCEPHALITIS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama: Mobile.....	1	1	Nebraska: Omaha.....	.....	1
Massachusetts: Chelsea.....	1	.....	Oregon: Portland.....	1	.....

## MALARIA.

Arkansas: Little Rock.....	2	.....	New Jersey: Newark.....	1	.....
Georgia: Atlanta.....	2	.....	New York: New York.....	1	.....
Brunswick.....	1	.....	Tennessee: Memphis.....	4	.....
Savannah.....	1	.....	Texas: Dallas.....	2	.....
Kentucky: Louisville.....	1	.....			
Owensboro.....	2	.....			
Louisiana: New Orleans.....	1	.....			

## MEASLES.

See p. 1433; also Telegraphic weekly reports from States, p. 1422, and Monthly summaries by States, p. 1426.

## PELLAGRA.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama: Birmingham.....	1	.....	North Carolina: Winston-Salem.....	1	.....
Mobile.....	.....	2	Tennessee: Nashville.....	1	.....
California: Riverside.....	.....	1	Texas: Dallas.....	1	1
District of Columbia: Washington.....	1	.....	Virginia: Norfolk.....	.....	1
Louisiana: New Orleans.....	1	.....	Petersburg.....	1	.....

## PNEUMONIA (ALL FORMS).

Alabama: Birmingham.....	5	.....	Connecticut—Continued. Greenwich.....	1	.....
Montgomery.....	2	.....	Hartford.....	.....	2
Arkansas: Fort Smith.....	1	.....	Meriden.....	1	.....
Little Rock.....	1	.....	New Haven.....	.....	6
North Little Rock.....	28	8	New London.....	1	.....
California: Eureka.....	1	.....	Delaware: Wilmington.....	.....	3
Oakland.....	8	7	District of Columbia: Washington.....	.....	10
Pasadena.....	2	1	Georgia: Atlanta.....	.....	3
Riverside.....	1	.....	Brunswick.....	1	.....
Sacramento.....	2	.....	Savannah.....	.....	1
San Bernardino.....	1	.....	Illinois: Alton.....	.....	1
San Diego.....	5	3	Aurora.....	2	1
San Francisco.....	6	3	Blue Island.....	.....	1
Santa Ana.....	1	.....	Chicago.....	203	67
Stockton.....	.....	3	Decatur.....	.....	3
Colorado: Denver.....	4	.....	East St. Louis.....	.....	2
Connecticut: Bridgeport.....	2	.....	Keweenaw.....	2	.....
Bristol.....	1	.....	Oak Park.....	3	1
Fairfield.....	1	.....	Pekin.....	1	.....

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
<b>Illinois—Continued.</b>			<b>Missouri:</b>		
Peoria.....	3		Jefferson City.....	17	1
Quincy.....	3		Kansas City.....	14	
Rockford.....	4		St. Joseph.....	1	
Springfield.....	6	2	Springfield.....	1	
<b>Indiana:</b>			<b>Montana:</b>		
Anderson.....	1		Anaconda.....	1	
Crawfordsville.....	1		Billings.....	1	
East Chicago.....	4		Butte.....	1	
Fort Wayne.....	1		Great Falls.....	2	
Indianapolis.....	6		Missoula.....	1	
Mishawaka.....	1		<b>Nebraska:</b>		
South Bend.....	1		Omaha.....	4	
<b>Iowa:</b>			<b>New Hampshire:</b>		
Burlington.....	4	3	Keene.....	1	
<b>Kansas:</b>			Nashua.....	1	
Kansas City.....	5		<b>New Jersey:</b>		
Lawrence.....	1		Atlantic City.....	3	
Topeka.....	2		Bellefonte.....	3	
Wichita.....	4		Bloomfield.....	2	
<b>Kentucky:</b>			East Orange.....	3	
Lexington.....	1		Elizabeth.....	1	
Louisville.....	11		Englewood.....	4	
<b>Louisiana:</b>			Hackensack.....	1	
New Orleans.....	7		Harrison.....	1	
<b>Maine:</b>			Hoboken.....	4	
Bangor.....	2		Jersey City.....	4	
Lewiston.....	1		Newark.....	45	12
Portland.....	3		Orange.....	8	1
<b>Maryland:</b>			Passaic.....	2	
Baltimore.....	28	21	Paterson.....	7	
Cumberland.....	1		Plainfield.....	3	1
<b>Massachusetts:</b>			Trenton.....	8	3
Amesbury.....	1		West Hoboken.....	1	
Arlington.....	1		West New York.....	1	
Beverly.....	1		West Orange.....	1	
Boston.....	28		<b>New Mexico:</b>		
Brantree.....	1		Albuquerque.....	1	
Brockton.....	1		<b>New York:</b>		
Brookline.....	1		Albany.....	12	
Cambridge.....	7	3	Auburn.....	5	1
Chelsea.....	4		Buffalo.....	11	
Clinton.....	1		Cohoes.....	1	
Everett.....	2	1	Glens Falls.....	2	
Fall River.....	1		Hornell.....	1	
Framingham.....	2		Hudson.....	1	
Gardner.....	1		Ithaca.....	2	
Haverhill.....	1		Jamestown.....	1	
Holyoke.....	5		Lackawanna.....	1	
Lowell.....	1		Mount Vernon.....	6	
Lynn.....	3	2	Newburgh.....	3	2
Malden.....	1		New York.....	399	197
Methuen.....	1		Niagara Falls.....	3	1
New Bedford.....	2		North Tonawanda.....	1	2
Newton.....	2		Port Chester.....	1	
Pittsfield.....	3		Poughkeepsie.....	3	2
Somerville.....	2		Rochester.....	13	8
Southbridge.....	1		Rome.....	5	1
Springfield.....	6		Saratoga Springs.....	2	1
Taunton.....	1		Schenectady.....	1	
Wakefield.....	1		Syracuse.....	3	
Waltham.....	1		Troy.....	3	
Watertown.....	1		Watertown.....	1	
Webster.....	1		Yonkers.....	4	1
Worcester.....	9	7	<b>North Carolina:</b>		
<b>Michigan:</b>			Charlotte.....	1	
Ann Arbor.....	3		Wilmington.....	3	
Battle Creek.....	1		Winston-Salem.....	1	
Detroit.....	65	18	<b>Ohio:</b>		
Flint.....	4	2	Cambridge.....	1	
Grand Rapids.....	5	1	Canton.....	2	
Hamtramck.....	1		Cincinnati.....	5	
Kalamazoo.....		1	Cleveland.....	49	
Muskegon.....	3		Columbus.....	5	
Pontiac.....	3		Dayton.....	2	
Port Huron.....	2		East Cleveland.....	1	
<b>Minnesota:</b>			Fremont.....	1	
Duluth.....	4	1	Mansfield.....	1	
Minneapolis.....		8	Salem.....	1	
St. Paul.....		4	Sandusky.....	1	

June 9, 1922.

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## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## PNEUMONIA (ALL FORMS)—Continued.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Ohio—Continued.			Texas—Continued.		
Steubenville.....	2		Fort Worth.....		3
Toledo.....	5		Galveston.....		1
Zanesville.....	1		Houston.....		1
Oklahoma:			Waco.....		1
Oklahoma.....	1		Utah:		
Oregon:			Salt Lake City.....		1
Portland.....	9		Virginia:		
Pennsylvania:			Petersburg.....		2
Philadelphia.....	61	39	Richmond.....		2
Rhode Island:			Roanoke.....	2	
Pawtucket.....	4		West Virginia:		
Providence.....	5		Charleston.....		3
South Carolina:			Clarksburg.....		1
Charleston.....	2		Huntington.....		2
Tennessee:			Wisconsin:		
Memphis.....	5		Fond du Lac.....		1
Nashville.....	3		Milwaukee.....	16	
Texas:			Oshkosh.....		
Dallas.....	1	2	Racine.....		
El Paso.....					

## POLIOMYELITIS (INFANTILE PARALYSIS).

City.	Median for years 1915 to 1921, in- clusive.	Week ended May 20, 1922.	
		Cases.	Deaths.
New Jersey:			
Trenton.....	0		1
New York:			
New York.....	0	1	1
Wyoming:			
Cheyenne.....		1	

## RABIES IN ANIMALS.

City.	Cases.	City.	Cases.
California:		Kentucky:	
Los Angeles.....	3	Louisville.....	1
Riverside.....	1	Missouri:	
Georgia:		Kansas City.....	2
Albany.....	1	New Jersey:	
		West Orange.....	1

## SCARLET FEVER.

See p. 1433; also Telegraphic weekly reports from States, p. 1422, and Monthly summaries by States, p. 1426.

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## SMALLPOX.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious years.	Week ended May 20, 1922.		City.	Median for pre- vious years.	Week ended May 20, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
California:				Montana:			
Los Angeles.....	1	2	.....	Great Falls.....	2	5	.....
San Diego.....	0	1	.....	Nebraska:			
San Francisco.....	3	3	.....	Lincoln.....	3	1	1
Stockton.....	0	3	.....	New York:			
Colorado:				Niagara Falls.....	0	4	.....
Denver.....	30	8	1	North Carolina:			
Connecticut:				Durham.....	0	1	.....
Bridgeport.....	0	3	.....	North Dakota:			
New London.....	0	7	.....	Grand Forks.....	0	8	.....
Georgia:				Ohio:			
Atlanta.....	5	10	.....	Canton.....	0	1	.....
Savannah.....	0	5	.....	Columbus.....	1	1	.....
Illinois:				Dayton.....	1	1	.....
Chicago.....	2	2	.....	New Philadelphia.....	0	2	.....
Peoria.....	4	1	.....	Sandusky.....	0	1	.....
Peoria.....	3	3	.....	Springfield.....	0	5	.....
Indiana:				Oklahoma:			
Fort Wayne.....	0	5	.....	Oklahoma.....	2	1	.....
Indianapolis.....	20	1	.....	Tulsa.....	4	1	.....
Iowa:				Oregon:			
Council Bluffs.....	3	3	.....	Portland.....	10	10	.....
Mason City.....	4	1	.....	South Carolina:			
Waterloo.....	3	1	.....	Columbia.....	0	1	.....
Kansas:				South Dakota:			
Coffeyville.....	0	1	.....	Sioux Falls.....	1	4	.....
Hutchinson.....	0	1	.....	Tennessee:			
Kansas City.....	5	2	.....	Memphis.....	8	1	.....
Kentucky:				Texas:			
Louisville.....	2	1	.....	Beaumont.....	0	1	.....
Michigan:				Virginia:			
Detroit.....	12	1	.....	Richmond.....	0	1	.....
Flint.....	2	3	.....	West Virginia:			
Grand Rapids.....	1	10	.....	Martinsburg.....	0	1	.....
Ironwood.....	1	1	.....	Wisconsin:			
Pontiac.....	2	1	.....	Ashland.....	2		
Minnesota:				Milwaukee.....	1	1	
Minneapolis.....	26	6	.....	Racine.....	0	1	
St. Paul.....	8	12	.....	Superior.....	1	6	
Missouri:				Wausau.....	0	3	
Kansas City.....	14	7	3				

## TETANUS.

City.	Cases.	Deaths.	City.	Cases.	Deaths.
Alabama:			Missouri:		
Birmingham.....			St. Louis.....	1	.....
Mobile.....		1	New York:		
California:			Buffalo.....	1	.....
Riverside.....	1	1	New York.....	1	.....
Maryland:			Syracuse.....		1
Baltimore.....	2	.....			

## TUBERCULOSIS.

See p. 1433; also Telegraphic weekly reports from States, p. 1422.

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## TYPHOID FEVER.

The column headed "Median for previous years" gives the median number of cases reported during the corresponding weeks of the years 1915 to 1921, inclusive. In instances in which data for the full seven years are incomplete, the median is that for the number of years for which information is available.

City.	Median for pre- vious years.	Week ended May 20, 1922.		City.	Median for pre- vious years.	Week ended May 20, 1922.	
		Cases.	Deaths.			Cases.	Deaths.
Alabama:				Minnesota:			
Birmingham	2	6	1	Rochester	0	3	.....
Montgomery	0	1	.....	Missouri:			
Arkansas:				Kansas City	1	1	.....
Little Rock	0	1	.....	St. Louis	1	2	.....
California:				Montana:			
Los Angeles	2	5	1	Billings	0	.....	1
Richmond	0	1	.....	New Jersey:			
Sacramento	0	1	.....	Hoboken	0	1	1
San Francisco	2	1	.....	Newark	0	2	.....
Santa Ana	0	1	.....	Plainfield	0	.....	1
Stockton	0	3	.....	New York:			
District of Columbia:				Buffalo	1	1	1
Washington	2	6	1	Jamestown	0	1	.....
Florida:				Newburgh	0	1	1
Tampa		1	1	New York	17	11	1
Georgia:				North Carolina:			
Rome	0	2	.....	Durham	0	1	.....
Savannah	2	3	.....	Ohio:			
Valdosta		1	.....	Cincinnati	1	1	.....
Illinois:				Cleveland	2	2	.....
Chicago	3	5	.....	Kenmore	0	1	.....
Kewanee	0	2	.....	Martins Ferry	0	1	.....
Peoria	0	.....	1	Steubenville	0	1	.....
Rockford	0	1	.....	Oklahoma:			
Springfield	0	1	.....	Tulsa	0	1	.....
Indiana:				Oregon:			
Indianapolis	1	1	.....	Portland	1	2	.....
Iowa:				South Carolina:			
Davenport	0	1	.....	Charleston	1	.....	1
Kentucky:				Columbia	1	1	.....
Covington	1	3	.....	Greenville	0	3	.....
Louisville	2	1	.....	Tennessee:			
Owensboro		1	.....	Memphis	1	5	.....
Louisiana:				Nashville	1	4	2
New Orleans	4	5	1	Texas:			
Maine:				Dallas	0	1	.....
Bangor	0	2	.....	Galveston	1	1	.....
Maryland:				Virginia:			
Baltimore	6	3	.....	Alexandria	2	1	.....
Massachusetts:				Norfolk	0	1	.....
Boston	3	1	.....	Petersburg	1	1	.....
Danvers	0	1	.....	Roanoke	0	1	.....
Lawrence	0	1	.....	West Virginia:			
Malden	0	1	.....	Huntington	0	1	.....
Newton	1	2	.....	Wisconsin:			
Michigan:				Superior	0	2	.....
Detroit	5	2	.....				
Flint	2	1	.....				
Grand Rapids	1	4	.....				

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>Alabama:</b>										
Birmingham	178,270	62	1		3				7	4
Mobile	60,151	20	2						1	
Montgomery	43,464	11							2	
<b>Arkansas:</b>										
Fort Smith	28,811	7	2				1			1
Hot Springs	11,695	5								
Little Rock	64,997		2					1		
North Little Rock	14,048		1							
<b>California:</b>										
Alameda	23,806	6	2	1			4			
Eureka	12,923	8	1		2					
Long Beach	55,593	20	3				1		1	
Los Angeles	576,673	165	37	2	3		36		77	24
Oakland	216,361	58	11		1		16		6	1
Pasadena	45,354	8	4				4			
Richmond	16,843	4	1						1	
Riverside	19,341	10								1
Sacramento	65,857	23	4				1		8	2
San Bernardino	18,721	9								
San Diego	74,683	33			4		2		9	5
San Francisco	508,410	122	27	3	11		7		35	10
Santa Ana	15,485	4								
Santa Barbara	19,441	3								
Stockton	40,296	12								
Vallejo	21,107	2	1						1	4
<b>Colorado:</b>										
Denver	256,369	83	12	3			11			10
<b>Connecticut:</b>										
Bridgeport	143,538	33	3		20		9		4	7
Bristol	20,620	3			3					
Derby	11,238	1								
Fairfield (town)	11,475	1			1					
Greenwich (town)	22,123		1		2				1	
Hartford	138,036	26	6		85		4		3	1
Manchester (town)	18,370	2					3			
Meriden (city)	29,842		2		1				1	
Milford (town)	10,193	1	1		4					
New Haven	162,519	40	4	1	105		3		5	1
New London	25,688	3	1		4		1			
<b>Delaware:</b>										
Wilmington	110,168	20					13			1
<b>District of Columbia:</b>										
Washington	437,571	102	13	2	23		5		30	11
<b>Florida:</b>										
Tampa	51,252	14	2		1					
<b>Georgia:</b>										
Albany	11,555		1							
Atlanta	200,616	60		2			1		1	5
Brunswick	14,413	3							3	
Macon	52,905		1		5					
Rome	13,252		1				5			
Savannah	83,252	26					2		3	2
Valdosta	10,753	3								
<b>Idaho:</b>										
Bolse	21,393	3								
<b>Illinois:</b>										
Alton	21,682	4			2					
Aurora	36,397	15	2		19		2		3	1
Bloomington	28,725	5	1						3	
Blue Island	11,424	6	1		2					
Centralia	12,491	3			1					
Chicago	2,701,705	613	113	15	544	3	76	5	207	35
Cicero	44,905	8	5				1			1
Decatur	43,818	6								
East St. Louis	66,740	15	1				1			4
Elgin	27,454	6					2	1		1
Evanston	37,215	7	1		3				1	
Freeport	19,669	2					2		3	
Galesburg	23,834	7	3						2	
Kewanee	16,026	3			1					
La Salle	13,050	1								
Mattoon	13,552	2								
Oak Park	39,830	13	1	1	12				1	

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
<b>Illinois—Continued.</b>										
Peoria.	76,121	23	4		1		2			3
Quincy.	35,978	13			21		1			2
Rockford.	65,651	26	5				3			2
Springfield.	59,183	21					1		5	
<b>Indiana:</b>										
Anderson.	29,767	8			3					1
Clinton.	10,962	7					2			
Crawfordsville.	10,139	3								
East Chicago.	35,967	17	2	1	1					1
Fort Wayne.	36,549	22	10							
Frankfort.	11,585	0								
Gary.	55,378	9	1							1
Hammond.	36,004	8			1					
Indianapolis.	314,194	65	1		106		7		10	11
Kokomo.	30,067	4							1	
La Fayette.	22,486	8	1							2
Logansport.	21,626	5								
Mishawaka.	15,195	3	2		1				2	
Muncie.	36,624	2	1							1
South Bend.	70,933	7					14		6	
Terre Haute.	66,083	12							1	
<b>Iowa:</b>										
Burlington.	24,057	13	1							
Cedar Rapids.	45,566		1							
Clinton.	24,151		3							
Council Bluffs.	36,162	8	2		4		1			1
Marshalltown.	15,731		1		1	1	4			
Mason City.	20,065	4	1							
Muscatine.	16,068	4	1							
Sioux City.	71,227		2				2			
Waterloo.	36,230						2			
<b>Kansas:</b>										
Coffeyville.	13,452	2	1							
Fort Scott.	10,693	1								
Hutchinson.	23,298		1				1			
Kansas City.	101,177		4				1			
Lawrence.	12,456	3								
Parsons.	16,028	5								
Salina.	15,085	6								
Topeka.	50,022	12	3				3		5	2
Wichita.	72,128	54	2		4		5		3	3
<b>Kentucky:</b>										
Covington.	57,121	22			12					1
Lexington.	41,534	15			43					1
Louisville.	234,801	60	5		3		1		23	7
Owensboro.	17,424				5				3	
Paducah.	24,735						1			
<b>Louisiana:</b>										
New Orleans.	357,219	108	10	1			2		23	14
<b>Maine:</b>										
Auburn.	16,985	3					4			
Bath.	14,731	4								
Biddeford.	18,008	2								
Lewiston.	31,791	9					5		2	
Portland.	69,272	29					10			2
<b>Maryland:</b>										
Baltimore.	733,826	212	18		238	2	16		26	28
Cumberland.	29,837	8								2
<b>Massachusetts:</b>										
Adams.	12,967	4								1
Amesbury.	10,036	3	1							
Arlington.	18,665	7	1		2		1		2	1
Attleboro.	19,731	2								
Belmont.	10,749	3					3			
Beverly.	22,561	7	1		1		1			
Boston.	748,060	198	54	3	236	1	51		53	17
Brantree.	10,580	5					2			3
Brockton.	66,138	15	4		12		20		1	1
Brookline.	37,748	7	2		39				1	
Cambridge.	109,694	22	2		91	2	12		5	2
Chelsea.	43,184	4	1		4		4		2	
Chicopee.	36,214	3	1		10					1

June 9, 1922.

**CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.**

**DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.**

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Popula- tion Janu- ary 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Montana:										
Anaconda	11,668	6								
Billings	15,100	4							1	2
Butte	41,611	13								1
Great Falls	24,121	9	5							1
Missoula	12,668	4								
Nebraska:										
Lincoln	54,934	13								
Omaha	191,601	33	1		54					4
Nevada:										
Reno	12,016	4								
New Hampshire:										
Berlin	16,104	4								
Concord	22,167	7								
Dover	13,029	5								
Keene	11,210	5								
Nashua	28,379	13								
Portsmouth	13,569									
New Jersey:										
Asbury Park	12,400	5								
Atlantic City	50,682	10								
Bayonne	76,754									
Belleville	15,660									
Bloomfield	22,019	2	2		10					
Clifton	26,470	2								
East Orange	50,710	8	1							
Elizabeth	95,682									
Englewood	11,627	5	1							
Garfield	19,381	2								
Hackensack	17,667	6								
Harrison	15,721		1							
Hoboken	68,166	22	3	1	6	2				
Jersey City	297,864									
Montclair	28,810	2	2							
Morristown	12,548	3								
Newark	414,216	109	15	3	204	2	31	1	35	11
Orange	33,268	4								
Passaic	63,824	12	3	1	10					
Paterson	135,866									
Phillipsburg	16,923	2								
Plainfield	27,700	12	1		13					
Rahway	11,042	2								
Summit	10,174	2								
Trenton	119,239	25	4		43	2	3		6	1
Union	20,651		1							
West Hoboken	40,068	7								
West New York	29,926	6								
West Orange	15,573	2	1							
New Mexico:										
Albuquerque	15,157	9	7						8	5
New York:										
Albany	113,344		2		2					
Auburn	36,192	9								
Buffalo	506,775	123	10		2		20	1	15	14
Cohoes	22,987	5	1							
Geneva	14,648	3								
Glens Falls	16,638	7								
Hornell	15,025	3								
Hudson	11,745	3								
Ithaca	17,004	8	1							
Jamesstown	38,917	8	1		12		5		1	
Lackawanna	17,918	4								
Little Falls	13,029	1								
Lockport	21,308	4	1		1					
Middletown	18,420		1		1					
Mount Vernon	42,726	8	1		37		3		1	
Newburgh	30,366	10								
New York	5,621,151	1,415	300	25	2,251	65	333	8	1,379	1,892
Niagara Falls	50,760	15	1		19		3			
North Tonawanda	15,482	3	1		1		4			
Olean	20,506		4							

<sup>1</sup> Pulmonary tuberculosis only.

## CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.

## DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.

City.	Population January 1, 1920, subject to correction.	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuberculosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
New York—Continued.										
Peekskill	15,868	4								1
Port Chester	16,573	2								
Poughkeepsie	35,009	8			7					
Rochester	295,750	75	8	1	89	5	4		18	5
Rome	26,341	11					1			2
Saratoga Springs	13,181	5								
Schenectady	88,723	17	2				7		10	1
Syracuse	171,717	33	18	1			12		12	2
Troy	72,013	36	2				2		6	2
Watertown	31,285	10							3	1
White Plains	21,031	4	1		5		1			
Yonkers	100,226	24	3		66		14		4	4
North Carolina:										
Charlotte	46,338	7								2
Durham	21,719	5							1	
Greensboro	19,861	6								1
Rocky Mount	12,742	2								
Salisbury	13,884	2								
Wilmington	33,372	16					1			1
Winston-Salem	48,395	10							1	1
North Dakota:										
Fargo	21,961	0					1			
Ohio:										
Akron	208,435	23	5		147		5		11	
Ashtabula	22,032	0	1						1	1
Barberton	18,811	4								
Bucyrus	10,425	4								
Cambridge	13,104	4								
Canton	87,091	14	1		23	2			1	1
Chillicothe	15,831	4								
Cincinnati	401,247	103	8		156	3	1		18	15
Cleveland	798,836	18			396		37		48	
Cleveland Heights	15,236				13					
Columbus	237,031	53	2		43		2		5	4
Dayton	152,559	39	4		16		2		4	
East Cleveland	27,292	7			25					
East Youngstown	11,237	1								
Findlay	17,021	3	1						1	
Fremont	12,468	2							2	
Kenmore	12,683				25					
Lancaster	14,706	4	1							
Lorain	37,295				2		1		1	
Mansfield	27,824	9					1			
Marion	27,891						1			
Martins Ferry	11,634	5					2			
Newark	26,718	3							1	
New Philadelphia	10,718		1		1					
Niles	13,080	2							1	1
Norwood	24,966	3	1		12				1	1
Piqua	15,044	1							1	1
Salem	10,305	6			6				1	1
Sandusky	22,897	6								
Springfield	60,840	12							4	
Steubenville	28,508	7	1				1		2	
Toledo	243,109	63	11		89		1		8	11
Zanesville	29,589	11					1		2	
Oklahoma:										
Oklahoma	91,258	21	4						4	2
Tulsa	72,075		1				6		1	
Oregon:										
Portland	253,288	65	8	1	3		2	1	1	3
Pennsylvania:										
Philadelphia	1,823,158	432	57	3	151	1	87	2	67	41
Rhode Island:										
Cranston	29,407	5								2
Newport	30,255	1	1				1			
Pawtucket	64,248	16								3
Providence	237,595	54	10	1	9		7			
South Carolina:										
Charleston	67,957	23							1	3
Columbia	37,524		1							
Greenville	23,127		7							

**CITY REPORTS FOR WEEK ENDED MAY 20, 1922—Continued.**

**DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS—Continued.**

## FOREIGN AND INSULAR.

### PLAQUE-INFECTED RODENTS ON VESSEL.

Steamship "Elpenor"—Liverpool, England.

At Liverpool, England, the finding of a plague-infected rat on the steamship *Elpenor* from oriental ports was reported during the two-week period ended April 29, 1922, and the finding of a plague-infected mouse from the same vessel during the week ended May 6, 1922.

The itinerary of the steamship *Elpenor* shows that the vessel left New York December 17, 1921, arriving at Yokohama January 25, 1922. From that port the vessel proceeded to Kobe, arriving February 2; to Shanghai, arriving February 24; to Saigon, arriving March 1; sailing from that port for Singapore March 13; arriving April 9 at Genoa, April 12 at Marseille, and April 22 at Liverpool, and sailing from that port May 3 for the Clyde.

### HONDURAS.

#### Hookworm Infection—Hemoglobinuria.

Examinations for hookworm infection made in six towns in the Tegucigalpa district, Honduras, during February and March, 1922, by a representative of the Rockefeller Foundation, show a high rate of infection in the towns of Amapala, Choluteca, and Nacaome, as follows: In Choluteca, 212 examinations showed 89 per cent; in Amapala, 241 examinations showed 76.3 per cent; in Nacaome, 170 examinations showed 74.8 per cent. Results of hemoglobinuria tests were as follows: 235 tests in Amapala gave 67.9 per cent; 158 tests in Choluteca gave 65 per cent; and 134 tests in Nacaome gave 57 per cent.

It was stated that examinations of both sexes were made indiscriminately and that the age of persons examined varied greatly. As only a small percentage of the total population was examined, the percentages of general infection can not be assumed to be the same as those given.

### ITALY.

#### Quarantine Measures Against Patras.

According to information dated May 5, 1922, quarantine measures against importation of plague have been ordered to be enforced at Italian ports against arrivals from Patras, Greece.

## MADAGASCAR.

Plague - Summary - November, 1921-February, 1922.

Corrected statements of the prevalence of plague in the island of Madagascar show the occurrence at Tamatave of one fatal case during the week ended February 12, 1922, the type of the disease being bubonic. At Tananarive, from November 23, 1921, to February 27, 1922, 49 cases with 30 deaths were reported. The types of the disease were stated to be bubonic, pneumonic, and septicemic. On March 5, 1922, Tananarive was officially declared free from plague. The number of rats taken was reported as follows: January, 1922, 6,799; February, 1922, 8,145; March, 1922, 22,286.

## POLAND.

Communicable Diseases.<sup>1</sup>

Communicable diseases have been reported in Poland, exclusive of the districts of Brest-Litovsk, Minsk, and Wilno, as follows:

January 29-February 25, 1922.

Disease.	Cases.	Deaths.	Locality of highest proportional mortality.
Cerebrospinal meningitis.....	37	18	Warsaw.
Cholera.....	1	.....	Do.
Diphtheria.....	362	54	Polesia.
Measles.....	1,933	77	Tarnopol.
Scarlet fever.....	1,228	174	Stanislawow.
Smallpox.....	197	61	Do.
Tuberculosis.....	318	840	Lwow.
Typhoid fever.....	1,866	163	Volhynia.
Typhus fever.....	7,005	583	Bialystok.
Typhus fever, recurrent.....	9,188	357	Polesia.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

Reports Received During Week Ended June 9, 1922.<sup>2</sup>

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	Mar. 26-Apr. 1.....	1	.....	
Calcutta.....	Apr. 9-22.....	172	146	
Rangoon.....	Apr. 2-15.....	11	10	
Poland:				
Warsaw.....	Jan. 29-Feb. 25.....	1	.....	
Siam:				
Bangkok.....	Mar. 19-Apr. 8.....	5	2	

## PLAGUE.

British East Africa: Kenya Colony— Nairobi.....	Apr. 2-8.....	2	2	
Ceylon: Colombo.....	Apr. 9-15.....	1	1	

<sup>1</sup> Public Health Reports, Mar. 31, 1922, p. 787.<sup>2</sup> From medical officers of the Public Health Service, American consuls, and other sources.

June 9, 1922.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

## Reports Received During Week Ended June 9, 1922—Continued.

## PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Amoy.....	Apr. 16-22.....	.....	7	
Hongkong.....	May 14-20.....	95	26	
India.....	Mar. 19-Apr. 1.....	75	61	Mar. 19-Apr. 1, 1922: Cases, 5,433; deaths, 4,353.
Bombay.....	Apr. 9-22.....	22	20	
Calcutta.....	Apr. 16-29.....	190	154	
Karachi.....	do.....	222	101	
Madras.....	Apr. 2-15.....	137	130	Presidency.
Rangoon.....				
Madagascar:				
Tamatave.....	Feb. 6-12.....	1	1	
Tananarive.....				
Mauritius (Island).....	Feb. 16.....	1	.....	Nov. 23, 1921-Feb. 27, 1922: Cases, 49; deaths, 30.
Mesopotamia:				
Bagdad.....	Mar. 1-31.....	.....	1	
Siam:				
Bangkok.....	Mar. 19-Apr. 15.....	8	6	
Straits Settlements:				
Singapore.....	Apr. 2-15.....	5	4	
Syria:				
Beirut.....	Apr. 9-23.....	3	.....	
On vessel:				
S. S. Elpenor.....	Apr. 16-May 6.....	.....	.....	At Liverpool, England, from oriental ports, 1 plague-infected rat and 1 infected mouse.

## SMALLPOX.

Arabia:				
Aden.....	Apr. 23-29.....	.....	3	
Brazil:				
Rio de Janeiro.....	Apr. 23-May 6.....	24	8	
British East Africa:				
Kenya Colony—				
Nairobi.....	Apr. 2-20.....	8	.....	
Canada:				
New Brunswick—				
Charlotte County.....	May 7-13.....	1	.....	
Madawaska County.....	do.....	4	.....	
Ontario—				
Ottawa.....	May 14-27.....	4	.....	
Toronto.....	do.....	9	.....	
Ceylon:				
Colombo.....	Apr. 16-22.....	2	.....	
China:				
Amoy.....	do.....	.....	1	
Chungking.....	Apr. 9-22.....	.....	.....	Present.
Hongkong.....	do.....	33	24	
Manchuria—				
Harbin.....	Apr. 3-16.....	2	.....	
Nanking.....	Apr. 9-22.....	.....	2	Do.
Shanghai.....	Apr. 17-30.....	.....	2	
Tsingtau.....	Mar. 20-Apr. 9.....	3	.....	
Dominican Republic:				
San Pedro de Macoris.....	May 6-13.....	.....	.....	In country, about 63 cases present.
Great Britain:				
Nottingham.....	Apr. 16-May 6.....	5	.....	
India:				
Bombay.....	May 10-Apr. 1.....	12	6	
Calcutta.....	Apr. 9-22.....	52	36	
Karachi.....	Apr. 16-29.....	27	28	
Madras.....	do.....	222	81	
Rangoon.....	Apr. 2-15.....	11	3	
Japan:				
Nagasaki.....	Apr. 24-30.....	1	.....	
Java:				
West Java—				
Batavia.....	Apr. 7-20.....	2	1	
Mexico:				
Guadalajara.....	Apr. 1-30.....	6	1	
Mexico City.....	Apr. 9-22.....	80	.....	
Monterey.....	May 10-16.....	.....	2	
San Luis Potosi.....	May 14-20.....	.....	2	

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

## Reports Received During Week Ended June 9, 1922—Continued.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Panama: Panama.....	Apr. 26-May 11.....	2.....	.....	One case, reported May 11, imported from Chiriqui Province.
Poland.....	.....	.....	.....	Jan. 29—Feb. 25, 1922: Cases, 197; deaths, 61.
Siam: Bangkok.....	Mar. 19-25.....	1.....	.....	
Siberia: Vladivostok.....	Mar. 1-31.....	2.....	.....	
Spain: Huelva.....	Mar. 1-31.....	.....	1.....	
Straits Settlements: Singapore.....	Apr. 2-15.....	20.....	3.....	
Switzerland: Zurich.....	Apr. 1-30.....	38.....	.....	
Syria: Beirut.....	Apr. 9-16.....	1.....	.....	
Turkey: Constantinople.....	Apr. 30-May 6.....	12.....	3.....	
Union of South Africa: Southern Rhodesia.....	Apr. 13-19.....	7.....	.....	

## TYPHUS FEVER.

Algeria: Algiers.....	May 1-10.....	5.....	.....	
China: Harbin.....	Apr. 3-16.....	3.....	.....	
Egypt: Cairo.....	Feb. 19-Mar. 4.....	5.....	1.....	
Germany: Berlin.....	Apr. 8-15.....	.....	1.....	
Königsberg.....	Apr. 16-22.....	.....	1.....	
Greece: Saloniki.....	Apr. 8-30.....	17.....	29.....	Among Russian refugees, 16 cases, 5 deaths.
Mesopotamia: Bagdad.....	Mar. 1-31.....	.....	3.....	
Mexico: Mexico City.....	Apr. 9-22.....	29.....	.....	Jan. 29—Feb. 25, 1922: Cases, 7,005; deaths, 533. Recurrent typhus: Cases, 9,188; deaths, 357.
Poland.....	.....	.....	.....	
Portugal: Oporto.....	Apr. 23-May 6.....	8.....	.....	
Siberia: Vladivostok.....	Mar. 25-31.....	2.....	1.....	
Syria: Aleppo.....	May 7-13.....	.....	.....	Present in interior localities.
Turkey: Constantinople.....	Apr. 30-May 6.....	9.....	1.....	

## YELLOW FEVER.

Brazil: Bahia.....	Apr. 16-22.....	-1.....	1.....	
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## Reports Received from December 31, 1921, to June 2, 1922.

## CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
India.....	.....	.....	.....	Oct. 2-Dec. 31, 1921: Deaths, 37,749. (Corrected report.) Jan. 1-28, 1922: Deaths, 2,823.
Bombay.....	Oct. 30-Nov. 5.....	1.....	.....	
Do.....	Jan. 29-Feb. 4.....	1.....	1.....	
Calcutta.....	Oct. 23-Dec. 31.....	71.....	60.....	
Do.....	Jan. 1-Apr. 8.....	562.....	470.....	

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**
**Reports Received from December 31, 1921, to June 2, 1922—Continued.**
**CHOLERA—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
<b>India—Continued.</b>				
Karachi.	Nov. 6-12.		1	
Madras.	Dec. 11-31.	4	1	
Do.	Jan. 1-Apr. 8.	15	9	
Rangoon.	Oct. 1-Dec. 31.	30	24	
Do.	Jan. 1-Apr. 1.	43	35	
<b>Indo-China:</b>				
Saigon.	Nov. 6-12.	1	1	
Do.	Jan. 29-Mar. 18.	34	30	Including 100 km. surrounding country.
<b>Java:</b>				
West Java—				
Batavia.	Nov. 1-7.	2	2	At Lebak.
<b>Philippine Islands:</b>				
Manila.	Nov. 13-Dec. 31.	49	18	
Do.	Jan. 1-Apr. 15.	84	28	
<b>Province—</b>				
Bulacan.	Dec. 25-31.	1		
Do.	Feb. 12-Mar. 11.	3	3	
Cavite.	Jan. 1-7.	1	1	
Cebu.	Jan. 8-14.	1		
Pampanga.	Dec. 25-31.	1		
Rizal.	Jan. 15-28.	18	12	
Zambales.	Dec. 11-31.	31	18	
Do.	Jan. 1-7.	5	4	
<b>Poland.</b>				Aug. 14-Sept. 10, 1921: Cases, 4; deaths, 1.
<b>Russia.</b>				Including the Ukraine; outbreaks reported; May 2, 1922. Present.
Kharkoff.	Jan. 28.			
Kief.	Dec. 15-Jan. 11.	259		
Lettonia—				
Riga.				
<b>Lithuania.</b>				
Odessa.	Jan. 28.			
<b>Siam:</b>				
Bangkok.	Oct. 23-Dec. 24.	8	4	
Do.	Jan. 29-Mar. 11.	9	4	
<b>Syria.</b>				Apr. 16-22, 1922: Reported present in interior cities.

**PLAQUE.**

<b>Asia Minor:</b>				
Smyrna.	Nov. 27-Dec. 3.	1	1	
Do.	Apr. 9-15.	1		
<b>Australia:</b>				
New South Wales—				
Sydney.	Nov. 27-Dec. 3.	2	1	Dec. 7-13, 1921: 4 plague rats.
Do.	Jan. 29-Apr. 29.	15	2	Jan. 15-21, 1922: 1 plague rat.
Queensland—				
Aramac.	Mar. 19-25.	1	1	Inland town on railroad about 150 miles from coast.
Brisbane.	Oct. 30-Dec. 31.	27	20	Total, Aug. 22-Dec. 31, 1921: Cases, 41; deaths, 27. Total infected rats, 54.
Do.	Jan. 1-Mar. 18.	10		Total cases, 41; deaths, 27. Total infected rats, 54. Total cases, Jan. 1-Apr. 8, 1922: 19. Total infected rats, 16.
Bundaberg.	Mar. 5-11.	1		
Cairns.	Oct. 30-Dec. 31.	6	3	Plague rats, 9.
Do.	Jan. 1-7.		1	Pestis minor.
Cooktown.	Oct. 30-Nov. 5.	1		
Ingham.				Nov. 6-Dec. 24, 1921: Plague rats, 14. Jan. 1-14, 1922: 2 plague rats.
Inisfail.				Nov. 27-Dec. 3, 1921: 1 plague rat.
Ipswich.	Dec. 11-17.	1	1	
Port Douglas.	Nov. 13-19.	1	1	
Townsville.	Nov. 20-Dec. 3.	2	2	Total cases, 27; deaths, 18.
Do.	Jan. 1-14.		2	To Jan. 14, 1922: Cases, 32; deaths, 21.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to June 2, 1922—Continued.

## PLAQUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Azores:				
Islands—				
Fayal.....	Jan. 16-22.....	2	2	
Horta.....	Feb. 2-8.....	4	2	
St. Michael.....				
Arrifes.....	Dec. 25-31.....	1	1	Nov. 27-Dec. 31, 1921: Cases, 23; deaths, 9. Jan. 1-21, 1922: Cases, 13; deaths, 8. Jan. 22-Apr. 1, 1922: Cases, 62; deaths, 31; occurring at Arrifes, Capelas, Feneas, Ribeira Grande, and Santo Antonio; distance from port of Ponta Delgada, 3 to 9 miles.
Do.....	Jan. 1-7.....	1		3 miles from port.
Feneas d'Ajuda.....	Nov. 27-Dec. 3.....			Present. 6 miles from port.
Do.....	Jan. 15-21.....	3	2	
Ribeira Grande.....	Nov. 13-Dec. 10.....	19	8	9 miles from port.
Do.....	Jan. 8-14.....	9	6	
Livramoto.....	Dec. 4-10.....	2		Vicinity of Ponta Delgada.
Ponta Delgada.....	do.....	1		
Brazil:				
Bahia.....	Oct. 30-Dec. 31.....	13	12	
Do.....	Jan. 1-Mar. 25.....	16	12	
Para.....	Feb. 6-12.....		1	
Pernambuco.....	Feb. 28-Mar. 4.....		1	
Porto Alegre.....	Feb. 12-18.....	3	2	
Rio de Janeiro.....	Jan. 22-28.....	1	1	
British East Africa:				
Uganda.....	Aug. 1-Dec. 31.....	256	229	Aug. 1-Oct. 31, 1921: Reports of inspectors, deaths, 343; reports of chiefs, deaths, 651.
Do.....	Jan. 1-31.....	57	56	Present. No plague mortality reported during previous 5-month period. August, 1921: Cases, 6; deaths, 3.
Cape Verde Islands:				
St. Vincent.....	Mar. 16.....			Oct. 30-Dec. 24, 1921: Rodent plague, 6.
Ceylon:				
Colombo.....	Oct. 30-Dec. 31.....	13	10	Infected rats, 12.
Do.....	Jan. 1-Apr. 8.....	30	28	
Chile:				
Antofagasta.....				Mar. 5-11, 1922: 1 plague rat,
China:				Present in surrounding country
Amoy.....	Feb. 18-Mar. 4.....			
Hongkong.....	Nov. 20-Dec. 17.....	6		
Do.....	Jan. 1-May 13.....	584	300	
Ecuador:				
Guayaquil.....	Nov. 16-Dec. 31.....	18	6	Rats examined, 2,958; found infected, 90. Total, July-Dec. 15, 1921: Cases, 28. Jan. 1-Apr. 15, 1922: Rats examined, 21,000; found infected, 575.
Do.....	Jan. 1-Apr. 15.....	43	15	Jan. 1-Dec. 31, 1921: Cases, 356; deaths, 153. Jan. 1-Apr. 27, 1922: Cases, 90; deaths, 40.
Naranjito.....	Mar. 1-15.....	1		Feb. 12-18, 1922: 1 plague rodent.
Egypt:				Mar. 12-16, 1922: 1 case, 1 death, septicemic.
City—				
Alexandria.....	Dec. 5-30.....	7	2	
Do.....	Jan. 17-Apr. 26.....	16	10	Feb. 12-18, 1922: 1 plague rodent.
Port Said.....	Dec. 20.....	1		Mar. 12-16, 1922: 1 case, 1 death, septicemic.
Do.....	Mar. 15-Apr. 27.....	3	3	
Suez.....	Nov. 22-Dec. 31.....	16	9	
Do.....	Jan. 2-Apr. 27.....	22	8	
Province—				
Assiout.....	Mar. 25-Apr. 27.....	3	3	Septicemic.
Assouan.....	Feb. 28.....	1	1	Do.
Benisouf.....	Apr. 24.....	4		
Fayoum.....	Feb. 17-Mar. 9.....	5	1	
Gharbieh.....	Feb. 17-Mar. 27.....	5	1	
Girgeh.....	Jan. 12-Mar. 30.....	5		
Kenoh.....	Dec. 1.....	1		
Do.....	Jan. 21-Feb. 28.....	5	3	Pneumonic, 1 case, 1 death; septicemic, 1 case.
Minieh.....	Feb. 21-Apr. 20.....	7	4	Septicemic.
Dunkirk.....	Mar. 24.....		1	In hospital, from steamship City of Genoa, from Bombay.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 31, 1921, to June 2, 1922—Continued.**

**PLAGUE—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Great Britain: Liverpool				Mar. 31, 1922: Finding of 3 plague-infected rats reported; in warehouse in which material from steamship Warwickshire was stored. <sup>1</sup>
Greece: Preveza	Feb. 8.			Outbreak. Port on the Ionian Sea.
India				Oct. 23-Dec. 31, 1921: Cases, 11,229; deaths, 8,465. Jan. 1-Mar. 18, 1922: Cases, 28,161; deaths, 22,152.
Bombay	Oct. 23-Dec. 24.	7	6	
Do.	Jan. 1-Mar. 18.	158	122	
Calcutta	Jan. 29-Apr. 8.	37	37	
Karachi	Nov. 6-Dec. 31.	5	5	
Do.	Jan. 1-Apr. 15.	395	296	
Madras	Dec. 11-17.	1		
Madras Presidency	Nov. 13-Dec. 31.	2,047	1,438	
Do.	Jan. 1-Apr. 15.	4,037	2,871	
Rangoon	Oct. 1-Dec. 31.	139	129	
Do.	Jan. 1-Apr. 1.	345	308	
Indo-China: Saigon				Nov. 6-Dec. 24, 1921: Rodent plague, 10. Jan. 8-Mar. 18, 1922: Rodent plague, 12.
Italy: Catania	Nov. 27	1	1	Total, Oct. 16-Nov. 27, 1921: Cases, 8 (of which 1 doubtful); deaths, 5. Jun.-Feb., 1922: 29 plague-infected rats found.
Naples (Province)— Torre Annunziata	Oct. 22-Dec. 27	2		17 miles from city of Naples.
Venice	Oct. 27	1		
Java				Islands of Java and Madoera; Nov. 1-Dec. 31, 1921: Deaths, 1,781. Jan. 1-Feb. 28, 1922: Deaths, 2,571.
East Java— Soerabaya	Oct. 30-Dec. 10	11	12	
Do.	Jan. 1-Mar. 25	16	16	
Madagascar: Tananarive	Jan. 23-Feb. 29	9	5	Bubonic, pneumonic, and septicemic.
Mauritius (Island)				Jan. 23-Feb. 6, 1922: Cases, 12; deaths, 3.
Port Louis	Oct. 29-Dec. 30	241	142	Plague-infected rats, 176; plague-infected cats, 36. (Corrected report.) Dec. 1-30, 1921: Dead rats found, 155; dead cats, 4.
Do.	Dec. 31-Jan. 22	16	6	Dead rats found, Dec. 31, 1921-Jan. 11, 1922, 17.
Mesopotamia: Bagdad	Oct. 1-31	1	1	
Do.	Feb. 1-28	2	1	
Mexico: Tampico				Dec. 18-31, 1921: Infected rodents found, 5; total, Jan. 1-Dec. 3, 1921, Infected rodents, 322; Jan. 1-May 6, 1922, 16 plague-infected rodents.
Vera Cruz				One infected rodent caught Dec. 5, 1921. Apr. 4-28, 1922: 3 infected rodents found.
Peru				Nov. 17-Dec. 31, 1921: Cases, 94; deaths, 35. Occurring in Callao, Huacho, Huarm, Lima, Magdalena Vieja, Paita, Salaverry, and Sochura. Jan. 1-Feb. 28, 1922: Cases, 141; deaths, 62. (Corrected report to Feb. 15, 1922.) Mar. 16-31, 1922: Cases, 28; deaths, 14.

<sup>1</sup> Public Health Reports, Mar. 31, 1922, p. 784.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to June 2, 1922—Continued.

## PLAQUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Peru—Continued.				
Localities—				
Bambamarca.....	Jan. 1-15.....			Present. Rural.
Barranco.....	Jan. 16-31.....	1		
Callao.....	Jan. 1-Feb. 28.....	7	4	Rural. Year, 1921: Deaths, 30.
Casma.....	Feb. 1-28.....	11	3	
Chiclayo.....	Jan. 16-Feb. 28.....	19	16	
Chilca.....	Jan. 16-Feb. 15.....	11	2	
Cutervo.....	Jan. 1-15.....	1		Rural.
Guadalupe.....	Jan. 1-31.....	7	2	
Huacho.....	Jan. 1-Feb. 15.....	3		
Hualgayoc.....	Jan. 16-31.....			Province. Present.
Huáral.....	Jan. 1-15.....	2		
Jayanca.....	do.....			Present.
Lambayeque.....	Jan. 16-Feb. 15.....	3	1	
Lima.....	Jan. 1-Feb. 28.....	14	4	In district, 20 cases, 6 deaths.
Mollendo.....	Feb. 1-28.....	3		
Pacasmayo.....	do.....	1		
Payta.....	Jan. 1-Feb. 28.....	28	21	
Plura.....	Feb. 1-15.....	1		
Salaverry.....	Jan. 16-31.....	1		
San Pedro.....	Jan. 1-15.....	1		
Sullana.....	Jan. 1-Feb. 28.....	3	3	
Trujillo.....	Feb. 1-15.....			
Tumbes.....	do.....	4		Present.
Portugal:				
Lisbon.....	Dec. 15.....	1	1	
Do.....	Feb. 1-28.....	6		Pneumonic; occurring in one family.
Portuguese West Africa:				
Angola—				
Loanda.....	Oct. 9-Nov. 5.....		2	
Do.....	Jan. 29-Feb. 4.....		2	
Mossamedes.....	Feb. 14.....			
Rhodes (Island) (Aegean Sea).....	Oct. 13.....	3	1	
Senegal:				
Dakar.....	Jan. 1-Mar. 31.....	4	1	
Siam:				
Bangkok.....	Oct. 23-Dec. 31.....	7	6	
Do.....	Jan. 8-Mar. 11.....	37	28	
Straits Settlements:				
Singapore.....	Nov. 6-Dec. 31.....	3	3	
Do.....	Jan. 15-Mar. 18.....	37	18	
Syria:				
Beirut.....	Oct. 9-Nov. 20.....	10	4	
Do.....	Mar. 27-Apr. 2.....	1		
Turkey:				
Constantinople.....	Jan. 1-7.....	1		Mar. 26-Apr. 1, 1922: One death.
Union of South Africa:				
Orange Free State—				
Boschrand Farm.....	Jan. 15.....	3	3	10 miles from Kroonstad.
Bothaville.....	Nov. 19.....			Plague-infected mouse found.
Geluksfontein Farm.....	Feb. 25.....			Plague mortality among rodents.
Granville Farm.....	Mar. 1-15.....	4	4	Winburg district, vicinity of Ventersburg Road Station.
Hoopstad.....	Dec. 4-10.....	1		In native herd boy.
Klipfontein Farm.....	Feb. 10.....	1	1	12 miles from Bothaville. Plague infection found in rats on adjoining farm, week ended Feb. 4, 1922.
Rientfontein Farm.....	Feb. 17.....			Plague-infected squirrel found.
On vessels:				
S. S. City of Genoa.....	Mar. 9-15.....	4	2	At Suez and Port Said, Egypt, from Karachi and Bombay, India, for Plymouth, England. One fatal case at sea en route to Suez; 1 case on arrival. At Port Said, 2 cases, of which 1 fatal. At Dunkirk, France, Mar. 24, 1922: Several cases on arrival; 1 fatal case in hospital at Dunkirk.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to June 2, 1922—Continued.

## PLAQUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
On vessels—Continued.				
S. S. Polycarp.....	Feb. 3.....	1.....		At Para, Brazil, from Ceara, via Manaos, Maranham, and Para for New York.
S. S. Tango Maru.....	Dec. 31.....	1.....		At Thursday Island Quarantine, Australia, from Kobe, via Nagasaki, Hongkong, Manila, and Zamboanga.
S. S. Warwickshire.....	Feb. 12.....			At Liverpool, England, from Rangoon. Plague rats, 27; 1 plague mouse.

## SMALLPOX.

Algeria:				
Algiers.....	Jan. 1-Mar. 31.....	4.....		
Arabia:				
Aden.....	Dec. 25-31.....		1.....	
Do.....	Jan. 8-Apr. 1.....		2.....	
Asia Minor:				
Koviltsa.....	Apr. 23-29.....	27.....		Interior.
Pandernia.....	do.....	2.....		Do.
Smyrna.....	Jan. 15-Apr. 15.....	9.....		In district.
Bolivia:				
La Paz.....	Aug. 1-Dec. 31.....	60.....	41.....	
Do.....	Jan. 1-Feb. 23.....	32.....	21.....	
Brazil:				
Bahia.....	Nov. 6-Dec. 17.....	4.....		
Do.....	Jan. 8-Feb. 4.....	2.....		
Pernambuco.....	Apr. 2-8.....	1.....		
Rio de Janeiro.....	Nov. 13-Dec. 31.....	13.....	2.....	
Do.....	Jan. 1-Apr. 22.....	59.....	20.....	
Santos.....	Feb. 20-26.....		1.....	
Sao Paulo.....	Oct. 31-Dec. 25.....	11.....		
Do.....	Dec. 26-Jan. 8.....	2.....		
British East Africa:				
Kenya Colony—				
Nairobi.....	Mar. 25-Apr. 1.....	1.....		
Uganda.....	Aug. 1-Dec. 31.....	33.....	6.....	
Do.....	Jan. 1-31.....	36.....	3.....	
Canada:				
British Columbia—				
Vancouver.....	Dec. 25-31.....	3.....		
Do.....	Jan. 29-Feb. 4.....	1.....		
Victoria.....	Mar. 12-18.....	1.....		Year 1921: Cases, 71.
Manitoba.....				
Winnipeg.....	Nov. 20-Dec. 3.....	2.....		
Do.....	Apr. 2-8.....	3.....		
New Brunswick—				
Charlotte County.....				Dec. 17, 1921: 31 cases occurring at Andersonville and Blacks Harbor. Dec. 18-24, 1921: Cases, 3. Dec. 25-31, 1921: Cases, 2. Feb. 19-20, 1922: Cases, 2.
St. Stephen.....	Dec. 11-17.....	2.....		
Madawaska County.....	Apr. 30-May 6.....	1.....		Dec. 11-31, 1921: Cases, 3. Feb. 12-25, 1922: Cases, 4. 20 miles from Campbellton.
Restigouche County.....				
Charlo.....	Feb. 19-25.....	2.....		
Westmoreland County.....	Mar. 5-Apr. 1.....	22.....		
York County.....	Dec. 11-17.....	1.....		
Do.....	Jan. 29-Feb. 4.....	1.....		
Ontario.....				
Fort William and Port Arthur.....	Jan. 1-21.....	3.....		Dec. 1-31, 1921: Cases, 128. Jan. 1-31, 1922: Cases, 170. Feb. 1-Apr. 30, 1922: Cases, 377.
Hamilton.....	Jan. 22-Mar. 25.....	4.....		
Kingston.....	Jan. 17-Feb. 11.....	5.....		Jan. 16-20, 1922: Two cases reported.
Niagara Falls.....	Dec. 11-24.....	2.....		Feb. 19-25, 1922: Cases, 6.
Do.....	Jan. 15-May 20.....	50.....		
North Bay.....	Feb. 12-18.....	1.....		
Ottawa.....	Dec. 11-24.....	17.....		
Do.....	Jan. 1-May 13.....	40.....		
Sault Ste. Marie.....	Jan. 15-21.....	1.....		
Toronto.....	Dec. 11-24.....	4.....		
Do.....	Jan. 1-May 13.....	100.....		
Windsor.....	Jan. 8-Mar. 4.....	3.....		

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

## Reports Received from December 31, 1921, to June 2, 1922—Continued.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Canada—Continued.				
Quebec—				
Montreal.....	Dec. 11-24.....	1	.....	
Saskatchewan—				
Regina.....	Jan. 1-Feb. 11.....	4	.....	
Saskatoon.....	Dec. 1-18.....	6	.....	
Do.....	Feb. 5-18.....	3	.....	
Canal Zone:				
Ancon.....				Admitted to hospital by transfer from Panama, Nov. 30, 1921, 1 case. Arrived on sailing vessel from a village on south coast.
Ceylon:				
Colombo.....	Nov. 27-Dec. 3.....	1	.....	Port case.
Do.....	Jan. 29-Apr. 1.....	7	.....	One port case.
Chile.....				Jan.-Sept., 1921: Cases, 5,500 (approximately); deaths, 2,500 (approximately). Nov. 15-21, 1921: Diffused in southern Provinces; not epidemic.
Concepcion.....	Nov. 23-Dec. 26.....	25	.....	Nov. 15-21, 1921: Present. In vicinity, at Hualqui, cases, 32; deaths, 5. Dec. 4-17, 1921: Present.
Do.....	Dec. 27-Mar. 13.....	42	.....	
Coronel.....	Nov. 15-Dec. 17.....	4	.....	Present.
Curanilahue.....	Nov. 15-21.....	4	.....	
Lota.....				
Ollague.....	Mar. 12-25.....	1	.....	Oct. 28, 1921-Jan. 31, 1922: Cases, 579; deaths, 338. Reported Mar. 16.
Osorno.....	Nov. 15-Dec. 24.....	6	.....	From beginning of outbreak to Feb. 15, 1922: Cases, 87.
Talcahuano.....	Jan. 29-Feb. 18.....	5	.....	Jan. 8-28, 1922. Present.
Do.....	Nov. 15-21.....	9	.....	From beginning of outbreak to Feb. 15, 1922: Cases, 122.
Temuco.....	Oct. 23-Dec. 31.....	94	.....	
Valparaiso.....	Jan. 1-Mar. 25.....	39	.....	
China:				
Amoy.....	Nov. 16-Dec. 31.....	7	.....	Nov. 23-29, 1921: Present. Jan. 22-28, 1922: Present.
Do.....	Jan. 1-Apr. 15.....	21	.....	
Antung.....	Nov. 28-Dec. 18.....	4	1	
Do.....	Mar. 19-26.....	1	.....	
Canton.....	Dec. 1-31.....			Present.
Do.....	Feb. 1-Mar. 31.....			Do.
Changsha.....	Jan. 16-22.....	1	.....	Do.
Chungking.....	Nov. 6-Dec. 31.....			Do.
Do.....	Jan. 1-Mar. 25.....			Do.
Dairen.....	Mar. 13-Apr. 9.....	3	.....	Manchuria.
Foochow.....	Nov. 6-Dec. 31.....			Present.
Do.....	Jan. 1-Apr. 1.....			Do.
Hankow.....	Nov. 13-Dec. 31.....			Do.
Do.....	Jan. 1-21.....	2	.....	
Harbin.....	Nov. 14-Dec. 11.....	5	.....	
Do.....	Dec. 26-Apr. 2.....	5	.....	
Hongkong.....	Dec. 3-31.....	5	.....	
Do.....	Jan. 1-Apr. 8.....	75	57	Manchuria.
Mukden.....	Nov. 20-Dec. 31.....			Manchuria. Present.
Do.....	Jan. 15-Apr. 15.....			Do.
Nanking.....	Nov. 20-Dec. 17.....			Present.
Do.....	Jan. 15-Apr. 8.....			Do.
Shanghai.....	Oct. 31-Dec. 31.....	23	194	Cases, foreign; deaths, Chinese and foreign. Population: Native, 700,000; foreign, 24,000. Corrected report.
Do.....	Jan 2-Apr. 16.....	35	508	Cases, foreign; deaths, native, Jan. 14, 1922: Seriously prevalent.
Tientsin.....	Dec. 11-17.....	2	.....	In Mission Hospital.
Tsing'au.....	Jan. 1-Mar. 19.....	35	14	
Chosen (Korea):				
Fusan.....	Dec. 1-31.....	3	1	
Do.....	Jan. 1-Apr. 30.....	214	59	
Gensan.....	Feb. 1-28.....	1	.....	
Seoul.....	Jan. 1-Mar. 31.....	12	5	
Colombia:				
Cartagena.....	Nov. 22-28.....		1	Present.
Santa Marta.....	Feb. 19-25.....		.....	

June 9, 1922.

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to June 2, 1922—Continued.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Cuba.....				Dec. 4-31, 1921: Cases, 361. Jan. 1-31, 1922: Cases, 257. At Preston.
Antilla.....	Dec. 12-31.....	3.....		
Do.....	Jan. 8-Feb. 4.....	13.....	1.....	
Cienfuegos.....	Jan. 22-May 13.....	15.....	1.....	Two cases from outside city limits. Apr. 16-22, 1922: Cases 6, found at Senado, about 25 miles distant. In Province, Apr. 16-30, 1922.
Matanzas.....				
Nuevitas.....	Apr. 10-16.....	3.....		
Santiago.....	Jan. 1-Apr. 30.....	11.....	1.....	
Dominican Republic.....				Oct. 1-31, 1921: Cases, 653; deaths, 54. Jan. 2-Feb. 4, 1922: Cases, 6,022; deaths, 185.
Puerto Plata.....	Jan 13.....	100.....	5.....	In district, widely diffused, with 1,000 estimated cases, with 100 deaths.
San Pedro de Macoris.....	Nov. 20-Dec. 31.....	31.....	1.....	Estimate of about 500 cases of smallpox in the district of Macoris; of these, 50 within the city limits.
Do.....	Jan. 14-Apr. 22.....	199.....	9.....	Including vicinity. In surrounding country, Feb. 12-25; 66 cases. Feb. 26-Apr. 1: About 60 cases; Apr. 30, 75 cases.
Santo Domingo.....	Nov. 15-Dec. 5.....			In district, 401 cases estimated. Dec. 17-24, 1921: Present in vicinity, Jan. 9-16, 1922: In surrounding country, 1,745 cases (estimated). Mar. 19-Apr. 1, 1922: About 20 cases, with 1 death, in surrounding country. Apr. 2-15, 1922: Cases, 25; deaths, 8. Apr. 23-29: Cases, 29; deaths, 4. Apr. 30-May 6, 1922: Present, with 4 reported deaths.
Ecuador:.....				
Guayaquil.....	Nov. 16-Dec 3.....	7.....		
Do.....	Jan. 1-Apr. 15.....	5.....		And vicinity.
Egypt:.....				
Alexandria.....	Nov. 26-Dec. 2.....	1.....	1.....	
Cairo.....	do.....	2.....		
Port Said.....	Dec. 20-26.....	1.....		
Do.....	Jan. 22-Apr. 29.....	2.....		Dec. 16-23, 1921: 1 case.
Finland:.....				
Do.....				Nov. 16-30, 1921: 1 case. Feb. 4-15, 1922: Cases, 19. Mar. 1-Apr. 15, 1922: Cases, 33. Dec. 27, 1921-Jan. 2, 1922: Cases, 2.
Flume.....				
France:.....				
Bordeaux.....	Mar. 31-Apr. 6.....		1.....	
Great Britain:.....				
Manchester.....	Jan. 1-7.....	4.....		
Nottingham.....	Dec. 4-31.....	18.....		
Do.....	Jan. 8-Mar. 23.....	10.....		
Sheffield.....	Apr. 23-29.....	3.....		
Swansea.....	Jan. 17-23.....	2.....		Imported on vessel from Persian Gulf.
Greece:.....				
Saloniki.....	Mar. 19-Apr. 9.....	14.....	9.....	
Haiti:.....				
Cape Haitien.....	Dec. 11-21.....	8.....		Jan. 22-May 6, 1922: Present.
Do.....	Jan. 1-Feb. 18.....	21.....	1.....	
Port au Prince.....	Dec. 11-31.....			
Do.....	Jan. 15-21.....	2.....		Present.
India:.....				
Bombay.....	Oct. 23-Dec. 31.....	3.....	2.....	Oct. 2-8, 1921: Deaths, 28. Oct. 23-Nov. 19, 1921: Deaths, 266.
Do.....	Jan. 1-Mar. 18.....	27.....	6.....	Nov. 27-Dec. 31, 1921: Deaths, 533. Jan. 1-28, 1922: Deaths, 700.
Calcutta.....	Nov. 13-Dec. 31.....	37.....	28.....	
Do.....	Jan. 1-Apr. 8.....	378.....	261.....	
Karachi.....	Nov. 11-Dec. 31.....	28.....	9.....	
Do.....	Jan. 1-Apr. 15.....	266.....	144.....	
Madras.....	Nov. 13-Dec. 31.....	183.....	59.....	
Do.....	Jan. 1-Apr. 15.....	1,377.....	492.....	
Rangoon.....	Oct. 1-Dec. 31.....	6.....		
Do.....	Jan. 15-Apr. 1.....	57.....	2.....	

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**
**Reports Received from December 31, 1921, to June 2, 1922—Continued.**
**SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Indo-China:				
Saigon.....	Dec. 18-24.....	1	1	City and district.
Do.....	Jan. 8-Mar. 18.....	17	8	Do.
Italy:				
Catania.....	Feb. 20-26.....	1	—	In Province.
Genoa.....	Nov. 10-20.....	1	—	
Messina—				
Messina.....	Nov. 28-Dec. 4.....	1	—	
Pettino.....	Nov. 14-Dec. 4.....	2	—	
Venice.....	Jan. 30-Feb. 5.....	2	—	
Japan:				
Kobe.....	Jan. 23-Apr. 30.....	2	2	
Nagasaki.....	Mar. 13-19.....	1	—	
Taiwan Island.....	Dec. 1-31.....	2	1	
Do.....	Feb. 14-Mar. 10.....	2	1	
Yokohama.....	Jan. 9-Apr. 23.....	4	—	Corrected report.
Java:				
East Java—				
Surabaya.....	Jan. 1-7.....	4	—	
West Java—				
Bandoeng.....	Nov. 18-Dec. 8.....	2	—	
Batavia.....	Nov. 18-Dec. 22.....	11	9	City and Province.
Do.....	Dec. 30-Mar. 2.....	5	3	In Province. Cases, 23; deaths, 4; 13 cases, with 3 deaths, not locally stated. Feb. 3-Mar. 30, 1922: Cases, 21; deaths, 5.
Buitenzorg.....	Nov. 25-Dec. 8.....	7	1	
Krawang.....	Nov. 18-24.....	1	—	
Lebak.....	Nov. 18-Dec. 8.....	7	4	
Pandeglang.....	Nov. 25-Dec. 1.....	—	1	
Tangerang.....	Nov. 18-Dec. 8.....	5	1	
Liberia:				
Grand Bassa County.....	Nov. 30.....	—	—	Present at Lower Buchanan.
Mesopotamia:				
Bagdad.....	Oct. 1-Nov. 30.....	117	50	Epidemic, with high mortality,
Do.....	Feb. 1-28.....	6	4	November, 1921.
Mexico:				
Chihuahua.....	Dec. 5-11.....	—	1	
Do.....	Jan. 23-Feb. 19.....	—	2	
Guadalajara.....	Nov. 1-Dec. 31.....	6	—	
Do.....	Jan. 1-Mar. 4.....	35	6	
Manzanillo.....	Apr. 25-May 1.....	—	1	
Mexico City.....	Nov. 20-Dec. 31.....	64	—	Including municipalities in Federal District.
Do.....	Jan. 1-Apr. 8.....	232	—	Do.
Monterey.....	Apr. 12.....	—	2	Epidemic. Apr. 28; estimated about 16 deaths daily. Apr. 25-May 1, 1922; 9 deaths, in children.
Saltillo.....	Jan. 29-May 6.....	—	9	From San Salvador, Zacatecas, 1; from Tampico, 1.
San Luis Potosi.....	Dec. 18-24.....	—	2	
Do.....	Jan. 8-Apr. 1.....	—	18	
Torreon.....	Dec. 1-31.....	—	134	
Do.....	Jan. 1-Feb. 28.....	—	82	
Newfoundland:				
St. John.....	Feb. 4-10.....	1	—	
Nicaragua:				
Managua.....	Mar. 5.....	—	—	Present.
Palestine:				
Jerusalem.....	Jan. 10-Feb. 20.....	27	—	
Panama:				
Bocas del Toro Province—				
Sursuba.....	Jan. 18-Feb. 8.....	11	—	Village 24 miles from Almirante. Present.
Chiriqui Province.....	Dec. 22.....	—	—	Present with center of prevalence at Boquete Bajo. At Boquete Bajo, Jan. 22-Mar. 23, 1922, 59 admissions to lazaretto. On Mar. 20, 1922, 16 cases of smallpox, confluent type.
Do.....	Jan. 26.....	—	—	On Dec. 21, 1921, 1 additional case from country district of Sabanas admitted to hospital. Total admissions, Jan. 1-Dec. 21, 1921, 207.
Persia:				
Teheran.....	Dec. 14.....	1	—	May 22-Nov. 22, 1921: Deaths, 23.

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**
**Reports Received from December 31, 1921, to June 2, 1922—Continued.**
**SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Peru:				
Lima.....	Nov. 1-Dec. 31.....		3	
Poland.....				Aug. 14-Dec. 31, 1921: Cases, 578; deaths, 146. Jan. 1-28, 1922: Cases, 219; deaths, 55. Exclusive of Brest-Litovsk, Minsk, and Wilno districts.
Silesia.....	May 2.....			Epidemic.
Portugal:				
Lisbon.....	Nov. 13-Dec. 31.....	48	12	
Do.....	Jan. 1-Apr. 30.....	187	9	1 death in January, 1 in February, 7 deaths in March.
Portuguese East Africa:				
Lourenco Marques.....	Oct. 1-Nov. 5.....	2	4	
Portuguese West Africa:				
Angola—				
Loanda.....	Oct. 9-Dec. 31.....		7	
Do.....	Jan. 1-Mar. 25.....		6	
Rumania:				
Bucharest.....	Nov. 1-30.....		33	
Cahul.....	Jan. 1-31.....	1		District.
Chisinau.....	Dec. 1-31.....	33		Do.
Do.....	Feb. 1-28.....	17		Do.
Russia:				
Estonia.....	Oct. 1-Dec. 31.....	38		
Do.....	Feb. 1-Mar. 31.....	7		
Lettonia.....	do.....	75		Name of country official, changed from Latvia to Lettonia.
Do.....	Jan. 1-Feb. 28.....	38		
Senegal:				
Dakar.....	do.....	5	3	
Serbia:				
Belgrade.....	Oct. 2-Nov. 26.....	16	4	
Siam:				
Bangkok.....	Oct. 23-Nov. 5.....	1		
Siberia:				
Vladivostok.....	Feb. 22-28.....	1	1	
Spain:				
Barcelona.....	Jan. 8-14.....		1	
Corunna.....	Apr. 2-May 6.....		2	
Huelva.....	Oct. 1-Dec. 31.....		3	
Do.....	Jan. 1-Feb. 28.....	1	2	
Malaga.....	Nov. 1-Dec. 31.....		60	
Do.....	Jan. 1-31.....		8	
Seville.....	Nov. 16-Dec. 31.....		7	
Do.....	Jan. 8-Apr. 20.....		82	
Valencia.....	Jan. 27-Mar. 25.....	5	1	Mar. 9-15, 1922: One case.
Straits Settlements:				
Singapore.....	Nov. 6-Dec. 24.....	49	13	
Do.....	Jan. 1-Apr. 1.....	202	42	
Switzerland:				
Glarus, Canton.....	Dec. 10.....			Epidemic.
Lucerne.....	Feb. 1-28.....	12		
St. Gall.....	Feb. 12-18.....	1		
Zurich.....	Dec. 10.....	2		
Do.....	Mar. 12-Apr. 8.....	6		In vicinity.
Syria:				
Adana.....	Dec. 18-24.....			Present.
Do.....	Jan. 1-14.....			Do.
Aleppo.....	Dec. 18-24.....			Do.
Do.....	Jan. 1-Apr. 15.....			Do.
Alexandretta.....	do.....			Do.
Beirut.....	Oct. 9-Nov. 13.....	5	2	Dec. 29, 1921-Jan. 4, 1922: Cases, 14; deaths, 2.
Do.....	Jan. 8-Mar. 27.....	24	11	
Cilicia.....	Jan. 8-Feb. 4.....			Present.
Diarbekir.....	Dec. 18-24.....			Do.
Do.....	Jan. 1-Feb. 4.....			Do.
Mersina.....	Dec. 18-24.....			Do.
Do.....	Jan. 1-7.....			Do.
Urfa.....	Dec. 18-24.....			Do.
Do.....	Jan. 1-Feb. 4.....			Do.
Tunis:				
Tunis.....	Nov. 26-Dec. 23.....	17	15	
Do.....	Jan. 1-Apr. 8.....	4	6	
Turkey:				
Constantinople.....	Nov. 27-Dec. 24.....	20	4	
Do.....	Jan. 15-Apr. 29.....	139	27	

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to June 2, 1922—Continued.

## SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa.....				Nov. 1-Dec. 31, 1921: Cases, 342; deaths, 6 (colored). White, 10 cases. Jan. 1-Feb. 28, 1922: Cases, 37; deaths, 3.
Cape Province.....	Nov. 5-Dec. 31.....			Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 42; deaths, 1 (colored).
Do.....	Jan. 8-Apr. 1.....			Outbreaks.
Natal.....	do.....			Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 209; deaths, 5 (colored).
Durban.....	Apr. 2-8.....	1		Outbreaks, Nov. 1-Dec. 31, 1921: Cases, 8 (colored).
Orange Free State.....	Oct. 23-Dec. 24.....			Outbreaks. Natives.
Do.....	Feb. 5-25.....			Outbreaks.
Southern Rhodesia.....	Dec. 29-Apr. 5.....	323		Outbreaks. Dec. 1, 1921: Cases, 15. Nov. 1-Dec. 31, 1921: Cases, 22 (colored). Among white population, 8 cases, State not designated.
Transvaal.....	Oct. 23-Dec. 31.....			
Do.....	Jan. 1-Mar. 25.....			
Johannesburg District.....	Dec. 1-31.....	2		Outbreaks.
Do.....	Jan. 1-Feb. 28.....			
Venezuela:				
Ciudad Bolivar.....	Mar. 22.....	3		
Yugoslavia.....	July 3-9.....	2		July 3-30, 1921: Cases, 37.
Bosnia Herzegovina.....	do.....	1		
Croatia Slavonia.....	do.....	1		
Dalmatia.....	do.....	1		
Serbia.....	do.....	3		
Belgrade.....	Dec. 11-17.....	4		
Do.....	Jan. 1-Feb. 18.....	6		
Slovenia.....	July 3-9.....	1		
Voivodina.....	do.....	3		
On vessels:				
S. S. Empire State.....	Apr. 7.....	1		At Honolulu, Hawaii, Mar. 31. In Chinese woman, embarked at Hongkong, Mar. 15, unvaccinated; arrived Shanghai Mar. 19, states did not go ashore; at Kobe Mar. 22; left Yokohama Mar. 24. Case was passed on inspection; developed Apr. 5, 1922.
S. S. Victoria.....	Jan. 16.....	1	1	At Thursday Island Quarantine, Australia. Vessel left Hongkong Jan. 3; case isolated Jan. 10. Vessel left for Townsville, Sydney, and Melbourne. Released at Melbourne Feb. 4, 1922.
S. S. West O'Rowa.....	Jan. 5-8.....	3	1	At Kobe, Japan, from Shanghai, China.
S. S. —.....	Jan. 17-23.....	2		At Swansea, Wales, from Persian Gulf.

## TYPHUS FEVER.

Algeria:				
Algiers.....	Nov. 1-Dec. 31.....	3		
Do.....	Jan. 11-Apr. 30.....	15	1	
Oran.....	Dec. 21-31.....	1		
Do.....	Jan. 1-Apr. 20.....	24	14	
Argentina:				
Rosario.....	Mar. 1-31.....		1	
Asia Minor:				
Brousa.....	Jan. 15-21.....	1		
Smyrna.....	Apr. 15-21.....	1		
Austria:				
Vienna.....	Dec. 4-31.....	10		
Do.....	Jan. 1-28.....	9	1	
Bolivia:				
La Paz.....	Aug. 1-Dec. 31.....	121	98	
Do.....	Jan. 1-31.....	15	12	
Brazil:				
Sao Paulo.....	Feb. 6-12.....	12	2	

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to June 2, 1922—Continued.

## TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Bulgaria:				
Sofia.....	Dec. 18-24.....	1	.....	
Do.....	Feb. 12-Apr. 8.....	3	.....	
Chile:				
Concepcion.....	Nov. 22-Dec. 26.....	.....	3	
Do.....	Jan. 3-30.....	.....	3	
Talcahuano.....	Jan. 29-Feb. 18.....	3	.....	
Valparaiso.....	Oct. 23-Nov. 26.....	.....	5	
Do.....	Jan. 1-7.....	.....	1	
China:				
Antung.....	Dec. 26-Jan. 1.....	1	.....	
Do.....	Feb. 6-Apr. 9.....	9	.....	
Harbin.....	Nov. 7-Dec. 25.....	12	.....	
Do.....	Dec. 26-Apr. 2.....	42	.....	
Czechoslovakia:				
Prague.....	Jan. 22-Apr. 15.....	4	.....	
Danzig (free city).....	Feb. 23.....	1	.....	In district, at Zoppot. In merchant from Warsaw.
Egypt:				
Alexandria.....	Nov. 19-Dec. 31.....	3	1	
Do.....	Jan. 15-Apr. 22.....	23	6	
Cairo.....	Oct. 1-Dec. 31.....	16	14	Corrected report.
Do.....	Jan. 1-Feb. 18.....	13	7	
Port Said.....	Jan. 22-Apr. 8.....	3	.....	
Finland:				
Helsingfors.....	Jan. 1-31.....	1	.....	In courier from Moscow.
Germany:				
Breslau.....	Dec. 25-31.....	2	1	
Do.....	Jan. 1-Feb. 5.....	55	8	Including district.
Frankfort-on-Oder.....	Feb. 16.....	26	.....	In persons returning from Russia.
Hamburg.....	Dec. 11-17.....	4	.....	
Great Britain:				
Birkenhead.....	Apr. 6.....	13	3	Vicinity of Liverpool.
Glasgow.....	Dec. 25-31.....	1	.....	
London.....	Apr. 29.....	1	.....	Stated to have probably been contracted in Warsaw.
Greece:				
Patras.....	Apr. 3-9.....	.....		One death, recurrent typhus.
Saloniki.....	Jan. 23-Apr. 9.....	105	1	Apr. 3-9, 1922: Recurrent typhus: 27 cases; Russian refugees.
Mesopotamia:				
Bagdad.....	Oct. 1-Dec. 31.....	3	9	
Do.....	Feb. 1-28.....	1	.....	
Mexico:				
Mexico City.....	Nov. 20-Dec. 31.....	242	.....	Including municipalities in Federal District.
Do.....	Jan. 1-Apr. 8.....	301	1	Do.
San Luis Potosi.....	Dec. 18-24.....	.....	1	Dec. 25-31, 1921: Present.
Do.....	Jan. 8-Feb. 25.....	.....	.....	Present, 1 death.
Palestine:				
Jerusalem.....	Dec. 27-May 1.....	18	.....	
Poland.....				
District—				
Bialystok.....	Nov. 20-Dec. 10.....	116	3	Aug. 14-Nov. 5, 1921: Cases, 2,399; deaths, 173. Nov. 6-Dec. 3, 1921: Cases, 1,512; deaths, 105. Nov. 20-Dec. 10, 1921: Cases, 1,162; deaths, 89. Dec. 4-31, 1921: Cases, 3,000; deaths, 313. Jan. 1-28, 1922: Cases, 6,452; deaths, 643; recurrent typhus—cases, 6,268; deaths, 330. Jan. 29-Mar. 18, 1922: Cases, 12,119; recurrent typhus, 14,529. All statistics are exclusive of Brest-Litovsk, Minsk, and Wilno districts.
Do.....	Jan. 1-7.....	253	.....	Jan. 1-7, 1922: Cases, 61.
Galicia—				
Lemberg.....	Jan. 3.....	229	.....	
Kielce.....	Nov. 20-Dec. 10.....	31	8	
Do.....	Jan. 1-7.....	28	.....	
Krakow.....	Nov. 20-Dec. 10.....	45	6	
Do.....	Jan. 1-7.....	53	.....	
Łódz.....	Nov. 20-Dec. 10.....	67	.....	
Do.....	Jan. 1-7.....	41	.....	
Lublin.....	Nov. 20-Dec. 10.....	59	.....	
Do.....	Jan. 1-7.....	147	.....	
Lwow.....	Nov. 20-Dec. 10.....	121	16	

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from December 31, 1921, to June 2, 1922—Continued.

## TYPHUS FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Poland—Continued.				
District—Continued.				
Nowogrod.	Nov. 20-Dec. 10...	249	15	
Polesia.	do.	83	5	
Do.	Jan. 1-7...	450		
Posen.	do.	1		
Stanislawow.	Nov. 20-Dec. 10...	83	8	
Do.	Jan. 1-7...	54		
Tarnopol.	Nov. 20-Dec. 10...	86	17	
Do.	Jan. 1-7...	28		
Volhynia.	Nov. 20-Dec. 10...	89	4	
Do.	Jan. 1-7...	107		
Warsaw.	Nov. 20-Dec. 10...	81	2	
Do.	Jan. 1-7...	32		
Warsaw City.	Nov. 20-Dec. 10...	47	5	
Do.	Jan. 1-7...	67		
Portugal:				Feb. 26-Apr. 22, 1922: Cases, 255. Occurring in permanent and transient residents.
Oporto.	Jan. 8-Apr. 22...	38	2	
Rumania:				
Bucharest.	Nov. 1-30...	3		District.
Cahul.	Jan. 1-Feb. 28...	7		District. Dec. 1-31, 1921: Recurrent typhus; cases, 19.
Chisinau.	Nov. 1-Dec. 31...	28		
Do.	Feb. 1-28...	10		
Russia.				Nov. 28-Dec. 10, 1921: In Soviet Russia, cases, 7,681.
Estonia.	Oct. 1-Dec. 31...	53		Recurrent typhus, 51 cases.
Do.	Jan. 1-Mar. 31...	97		Corrected report Oct. 1-Nov. 30, 1921: Cases, 127.
Lettonia.	Oct. 1-Dec. 31...	341		
Do.	Jan. 1-Feb. 18...	456		
Libau.	Jan. 15-Feb. 1...	4		
Lithuania.	Jan. 1-31...	814	73	Recurrent typhus: Cases, 357; deaths, 12. Typhus: Feb. 19, 1922, 400 cases, vicinity of Kovno, with mortality of 7 per cent.
Perm.	Nov. 23-Dec. 10...	1,408		Oct. 1-31, 1921: Cases, 839. Nov. 1-31, 1921: Cases, 2,399.
Saratov District—Markstadt.				Sept. 1-Dec. 31, 1921: Cases, 1,987; mortality, about 10 per cent; hospital cases.
Serbia:				
Belgrada.	Oct. 2-Nov. 26...	3	2	
Siberia:				Jan. 23, 1922: Present in western districts.
Chita.	Dec. 26...			Epidemic.
Vladivostok.	Dec. 25-31...	5	1	
Spain:				
Madrid.	Dec. 1-31...		1	Corrected report.
Do.	Jan. 1-Mar. 31...		13	Apr. 16-22, 1922: Reported present in interior cities.
Syria:				Present. Apr. 23-29, 1922: Present in interior localities.
Aleppo.	Mar. 19...			Present.
Diarbekir.	Mar. 5-Apr. 15...			Do.
Mardin.	do...			
Tunis:				
Tunis.	Feb. 5-Mar. 25...	4	3	
Turkey:				
Constantinople.	Nov. 20-Dec. 31...	19		Nov. 1-Dec. 31, 1921: Cases, 1,368; deaths, 205 (colored). White, 20 cases; deaths, 4. Jan. 1-30, 1922: Cases, 945; deaths, 131, occurring in native population; 14 cases with 4 deaths occurring in white population.
Do.	Jan. 1-Apr. 8...	122	1	Oct. 23-Dec. 24, 1921: Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 1,053; deaths, 158 (colored). Among white population, 19 cases, 3 deaths.
Union of South Africa.				
Cape Province.				

**CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**

**Reports Received from December 31, 1921, to June 2, 1922—Continued.**

**TYPHUS FEVER—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Union of South Africa—Contd.				
Cape Province.....				Jan. 1-Apr. 1, 1922: Outbreaks, Jan. 1-Feb. 28, 1922: Cases, 688; deaths, 9 (colored); cases, 11; deaths, 4 (among white population).
East London.....	Oct. 30-Dec. 24.....	3		One death of European at Jenzenville, Dec. 6, 1921.
Do.....	Jan. 29-Feb. 11.....	2		Natives.
Durban.....	Jan. 15-21.....	1		Imported.
Natal.....	Nov. 5-Dec. 17.....			Outbreaks. Stated to be prevalent only in Newcastle district. Nov. 1-Dec. 31, 1921: Cases, 135; deaths, 25 (colored). Jan. 1-Feb. 28, 1922: Cases, 41; deaths, 10 (colored). Among white population 3 cases, 1 death.
Orange Free State.....	Nov. 13-Dec. 31.....			Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 158; deaths, 21 (colored).
Do.....	Jan. 1-Apr. 1.....			Outbreaks. Jan. 1-Feb. 28, 1922: Cases, 176; deaths, 25.
Transvaal.....	Jan. 8-Apr. 1.....			Outbreaks. Nov. 1-Dec. 31, 1921: Cases, 35; deaths 4 (colored). White, 1 case, 1 death. Jan. 1-Feb. 28, 1922: Cases, 40; deaths, 3 (colored).
Johannesburg' District.				
Venezuela:				
Maracaibo.....	Dec. 20-26.....		1	
Yugoslavia.....	July 3-9.....	1		July 3-30, 1921: Cases, 13.
Bosnia-Herzegovina.....				
Croatia Slavonia—				
Zagreb.....	Jan. 1-Mar. 25.....	4		
Montenegro.....	July 3-9.....	3		

**YELLOW FEVER.**

Brazil:				
Pernambuco.....	Feb. 19-Mar. 18.....	3	2	
Mexico:				
Colima (State):				Year 1921: Cases, 115; deaths, 53.
Colima.....	Oct. 27.....	4	3	Year 1921: Cases, 7; deaths, 4.
Manzanillo.....	Aug. 21.....	3	1	
Jalisco (State):				Year 1921: Cases, 13; deaths, 7.
Guadalajara.....	Nov. 1-30.....	1	1	Imported.
Puerta Vallarta (Las Penas):	Oct. 5-Dec. 17.....	13	5	
Do.....	Jan. 22-31.....	3	1	
Tonila.....	Aug. 31.....	1	1	
Oaxaca (State):				
Rincon Antonio.....	Jan. 10.....	1	1	
Quintana Roo (Territory):				
Payo Obispo.....	Aug. 8.....	1	1	Year 1921: Cases, 18; deaths, 9.
Sinaloa (State):				
Culiacan.....	Sept. 17.....	4	1	
Guamuchil.....	Oct. 10.....	1	1	
Mazatlan.....	Aug. 21.....	1	1	Imported.
Palmar de los Leales.....	Sept. 30.....	12	7	
Tamaulipas (State):				Year 1921: Cases, 1; deaths, 1.
Tampico.....	Jan. 11.....	1	1	
Vera Cruz (State):				Year 1921: Cases, 75; deaths, 31.
Alamo.....	June 21.....	4	1	
Alvarado.....	July 3.....	1	1	
Barro de Penn.....	July 18.....	1	1	
Cordoba.....	Sept. 22.....	5	3	
Cosamaloapan.....	July 18.....	14	6	
Nogales.....	Oct. 28.....	1	1	
Orizaba.....	do.....	1		
Papantla.....	Jan. 14.....	6	3	
Providencia.....	Oct. 28.....	3		
Purga.....	Feb. 7.....	1	1	
Rancho de Santa Rosa.....	Oct. 8.....	2		

## CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

## Reports Received from December 31, 1921, to June 2, 1922—Continued.

## YELLOW FEVER—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Mexico—Continued.				
Vera Cruz (State)—Contd.				
Rancho "El Jaguey" ..	Sept. 14.....	2	2	
San Cristobal.....	Mar. 24.....	1	.....	
San Pablo (Papantla) ..	Sept. 12.....	1	.....	
San Ildefonso ..	Oct. 17.....	2	.....	
Tierra Blanca ..	Sept. 24-Nov. 12 ..	4	3	
Tlacotalpan ..	Sept. 14.....	1	1	
Tuxpam ..	Jan. 3.....	8	2	
Vera Cruz ..	Jan. 15.....	18	7	Two of these cases imported. Dec. 20-26, 1921: Cases, 1; deaths, 1, imported. March, 1922: One case on plantation 105 miles from port of Vera Cruz.